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ANNUAL REPORT

OF THE

Department of Public Health

PROVINCE OF ALBERTA

1956



PUBLISHED BY ORDER OF THE LEGISLATIVE ASSEMBLY

EDMONTON:

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December 31, 1957.

To His Honour,

J. J. BOWLEN,

Lieutenant Governor of the Province of Alberta.

SIR:

I have the honour to transmit herewith, the Annual Report of the Department of Public Health for the year 1956.

I have the honour to be, Sir,

Your obedient Servant,
J. Donovan Ross, M.D.

Minister of Health.

December 31, 1957.

To THE HONOURABLE Dr. J. DONOVAN ROSS,

Minister of Health,

Administration Building, Edmonton, Alberta.

SIR:

I have the honour to submit herewith, the Thirty-Eighth Annual Report of the Department of Public Health. This report refers to the work done during 1956 under the direction of the Hon. Dr. W. W. Cross.

I have the honour to be, Sir,

Your obedient Servant,
A. Somerville, B.A., M.D., D.P.H.,

Deputy Minister of Health.

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THIRTY-EIGHTH ANNUAL REPORT OF THE PROVINCIAL DEPARTMENT OF PUBLIC HEALTH

Divisions:

- 1. General Administration
- 2. Local Health Services—

Communicable Diseases

Health Units

Municipal Nursing

Health Education

Nutrition

Entomology

- 3. Cancer Services
- 4. Social Hygiene
- 5. Provincial Laboratories
- 6. Sanitary Engineering
- 7. Civil Service Nurse
- 8. Arthritis Services
- 9. Cerebral Palsy Clinics
- 10. Tuberculosis Control—

Sanatoria: Aberhart Memorial Sanatorium, Edmonton Baker Memorial Sanatorium, Calgary

11. Mental Health—

Institutions: Provincial Mental Hospital, Ponoka

Provincial Mental Institute, Edmonton

Rosehaven, Camrose

Provincial Auxiliary Mental Hospital, Claresholm

Provincial Auxiliary Mental Hospital, Raymond

Provincial Training School, Red Deer

Guidance Clinics

Eugenics Board

- 12. Hospital and Medical Services
- 13. Nursing Aides School
- 14. Vital Statistics

A report of the work of each of these Divisions is included herewith.

PROVINCIAL BOARD OF HEALTH

The Provincial Board of Health met on three occasions during the year. A review of some of the major items considered during these meetings is contained in this report.

There was no change in membership of the Board during the year. Dr. A. Somerville, Provincial Medical Officer of Health, continued as Chairman, and Dr. R. D. Stuart, Provincial Bacteriologist, and Mr. H. L. Hogge, Provincial Sanitary Engineer, were members.

REGULATIONS AMENDED DURING THE YEAR

O.C. 360-56 approved amendments to the slaughter house section of the regulations respecting nuisances and general sanitation. The changes include a provision whereby a slaughter house to be located within a district zoned as an industrial area in a city may be constructed at lesser distances from dwellings and streets than the 200 yards and 100 feet respectively previously required. The distances in such instances may be reduced to 100 feet and 50 feet subject to the approval of the Local Board of Health.

O.C. 607-56 approved amendments to other sections of the regulations respecting nuisances and general sanitation. The procedure to be followed when any person fails to comply with an order to abate a nuisance has been clarified. The regulations now provide that in such instances the Local Board of Health may require the municipality concerned to abate the nuisance at the expense of the person responsible. The costs if not paid may be collected as taxes. The regulations dealing with the placarding of unsanitary houses was also clarified by providing that such regulations do not apply to owner-occupied dwellings. The amendments also include a requirement that outside closets be located at least 50 feet from any well. Another change provides that it is the responsibility of the muncipality concerned to ensure that every matter or thing deposited on a waste disposal ground shall be burned, buried or deodorized. There were also some minor changes which made the terminology in the regulations agree with that used in other legislation.

O.C. 862-56 approved amendments to the regulations regarding plumbing and drainage. Some of the regulations concerning administration and definitions were amended for clarification. Changes in the technical regulations were made either so that the regulations now agree with the National Building Code or so that the requirements will be suited to Alberta climatic conditions.

During the year a number of cases of persons who were suffering from tuberculosis in an infectious form and who were refusing treatment was drawn to the attention of the Board. After proper investigation of the cases the Board issued 11 orders covering removal of these persons to hospitals and sanatoria for treatment under the provisions of the Communicable Disease Regulations. Seventeen such orders were issued in 1955.

There was an extensive outbreak of bacillary dysentery in the Hinton district which continued to receive attention during the year. A large industrial plant is under construction in that area and many hundreds of construction workers have been employed. The population in the district increased from slightly over 300 to over 3,000 with the result that many families have been living in temporary and frequently very primitive accommodation. Sanitation was therefore at a low standard to which could be added the poor hygiene practised by many in the district. The infection therefore spread rapidly and control measures were difficult to apply. The outbreak though on a reduced scale was not fully under control at the end of the year.

Authorization cards were issued to 15 Executive Officers of the Provincial Board of Health during the year, while 11 cards were returned. At the year's end 35 such authorizations were in effect, the cards being held by employees of the Provincial Department of Health and in some cases by Municipal Nurses.

A new authorization card was introduced during the year for issue to nurses who have been appointed Executive Officers of Local Boards of Health certifying them to be capable of performing inoculations and vaccinations in accordance with Section 28 of The Public Health Act. As the new form replaced those previously in use, a total of 89 were issued during the year. Of these, five were later returned for cancellation, so that 84 such authorizations were in effect at the end of the year.

The sanitation of the province's major rivers continued to receive the attention of the Board. The effect of industrial wastes from existing industries, particularly oil refineries, and the possible effect of wastes from certain large industries that are being established were considered by the Board and instructions issued.

The increasing industrialization of the province has brought with it, as an attendant factor, a possibility of harmful air pollution. The Board is watching the establishment of plants likely to release harmful wastes to the air, in order that such instructions may be issued as may be necessary for the protection of the public.

A variety of other matters related to the health of the people of the province received attention during the year. These included the sanitary conditions in slaughter houses in the province, industrial camp sanitation, swimming pool construction and sanitation, barber shop sanitation, safety of milk supplies and a priority list for polio vaccine. In these and other matters, the Board gave direction and co-ordinated the activities of the various Divisions of the Department and Local Boards of Health in a broad program to improve the health of the people of the province.

LEGISLATION PASSED DURING THE YEAR

Department of Public Health Act Amendment Act (Chapter 13)

This Act amended The Department of Public Health Act, being chapter 13 of the Revised Statutes of Alberta, 1942.

A new section 8b was added to the Act which authorizes the Government of Alberta to enter into agreements with the Govern-

ment of Canada for the purpose of securing to the residents of the Province the benefits of any health service grants that may be available from the Government of Canada.

This Act came into force on March 29, 1956.

Health Unit Act Amendment Act (Chapter 21)

This Act amended The Health Unit Act, being chapter 38 of the Statutes of Alberta, 1951.

Subsection (2) of section 9a was repealed. Subsection (2) authorized the board of a health unit to pay the municipality or municipalities under an agreement a part or all of the cost of the municipal nursing service which was to be deemed to be an operating cost of the health unit.

Section 10 was amended as to clause (d) of subsection (1) to set out a formula for the employment of full-time nurses by the health unit. Subsection (2) was removed and a new subsection substituted which permits a health unit to employ one full-time dentist or one or more part-time dentists subject to certain qualifications, and a full-time dental assistant or one or more part-time dental assistants subject to certain restrictions. Subsection (4) was struck out. This subsection dealt with a municipal nursing service under The Nursing Services Act and provided that each municipal nurse employed in the municipal nursing service would be deemed to be employed for 1,200 of population and that number of population was deemed to be not included in the computation of the population referred to in the repealed clause (d) of subsection (1).

This Act came into force on March 29, 1956.

Hospitalization and Treatment Services Act

Amendment Act (Chapter 22)

The Hospitalization and Treatment Services Act, being chapter 56 of the Statutes of Alberta, 1953, was amended by this Act.

Section 11 was amended as to subsection (1), clause (c) to define "contract holder" in such a manner that it will be clear that the term here defined refers to a contract in a form prescribed by the Minister. A new subsection (5) is added for the purpose of placing a share crop tenant in the position of a contract holder under the hospitalization plan.

This Act came into force on March 29, 1956.

Hospitals Act Amendment Act (Chapter 23)

This Act amended The Hospitals Act, being chapter 184 of the Revised Statutes of Alberta, 1942.

Section 6, subsection (4) was amended to increase the limit of liability of a local authority from \$400.00 to \$600.00 in respect of indigent sick persons admitted to an approved hospital.

Section 7, subsection (2) was similarly amended.

This Act came into force on March 29, 1956.

Mental Diseases Act Amendment Act (Chapter 29)

This Act amended The Mental Diseases Act, being chapter 192 of the Revised Statutes of Alberta, 1942.

Section 4 was amended by replacing subsections (4) and (5) by new subsections. The purpose of the amendment is to clarify the procedure on committals by medical certificates.

Section 29 was replaced by a new section 29. The former section made no provision for the retaking of an escaped patient nor did it appear to make provision for the apprehension of a patient permitted to go home on trial and who later requires hospitalization. Both cases are covered by the new section.

Form H in the Schedule was amended to make it clear that the patient referred to in the form need not be one who was originally committed because he was found to be dangerous to be at large.

This Act came into force on March 29, 1956.

Municipal Hospitals Act Amendment Act (Chapter 38)

This Act amended The Municipal Hospitals Act, being chapter 185 of the Revised Statutes of Alberta, 1942.

Section 2 was amended by including therin definitions of "contract holder" and "non-ratepayer" and by altering the definition of "ratepayer" with respect to a municipal hospital district within a national park.

Section 11 was amended. Subsection (10) was amended to place the lessee of a ratepayer who is designated to receive land-owner's benefits in the position of a contract holder rather than that of a ratepayer. Subsection (11) was amended to correct the reference to a term now to be defined in the Act, namely, "contract holder".

Section 11a was replaced by a new section which will remove the exemption against a minimum hospital tax in the case of a person liable to deliver a share of the crop as rental on provincial government or municipal lands and provides that such a person is entitled to the benefits conferred by this Act on a contract holder.

Section 12 was repealed.

Section 73 was amended to remove a difficulty occasioned by the different methods of arriving at assessed values in cities and other municipalities. Subsection (5) of that section was amended to permit contributing councils to appeal to the Board of Public Utility Commissioners instead of requiring that a specified number of ratepayers appeal to the Board.

Form A in the Schedule was amended to make reference to contract holders. Form D was similarly amended.

This Act came into force on March 29, 1956.

Public Health Act Amendment Act (Chapter 42)

This Act amended The Public Health Act, being chapter 183 of the Revised Statutes of Alberta, 1942.

A new section 7b was added and will authorize plebiscites by municipalities to determine whether the residents of the municipality desire the fluoridation of the communal water supply.

This Act came into force on January 1, 1957.

DEPARTMENT OF PUBLIC HEALTH
REVENUE AND EXPENDITURE FOR FISCAL YEAR ENDING MARCH 31, 1957

	Salaries	Expenses	Revenue
601. Administration — General	\$ 11.623.20	\$ 2,761.82	\$
602. Administration - General		2,385.42	1,021.01
618. Administration - Postage		6,057.95	
603. Hospital and Medical Services:			
Administration		16,880.57	
Grants and Services	/	13,492,435.16	50.00
646. Hospital Construction Grants		1,750.617.15	996,180.27
605-1. Communicable Diseases	6,946.79	84.942.80	
605-2. Sanitary Engineering		14,925.68	4,108.50
606. Municipal Nursing		120,006.66	46,345.04
607. Bureau of Vital Statistics		17,206.00	117,907.93
609. Insulin		12,576.38	45 450 40
610. Social Hygiene		16,324.17	45,150.49
626. Public Health Laboratories		298,607.86 739,358.52	22,860.81
631. Poliomyelitis		465.875.14	318.080.34
638. Civil Service Nurse		1.015.30	310,000.34
639. Public Health Education		3.336.25	
640. Entomology		2,506.17	
641. Health Units		551,064.32	209,860,06
643. Nursing Aides Act		1,341.92	1,975,00
645. Health Services - Extension Program		1.039,055.19	1,076,055.92
648. Grants for Public Health Services		63,934,00	
649. Alcoholism Foundation of Alberta		100,000.00	
651. Cerebral Palsy Clinics		25,893.51	36,171.01
652. Arthritis Services	11,318.94	6,818.33	
Division of M	ental Health		
622. Director's Office and Guidance Clinics		13,456.81	51.862.41
612-1)	,		
613-2. Provincial Mental Institute, Edmonton		430,265.89	570,995.77
612-2. Provincial Training School, Red Deer	766,140.67	250,667.65	201,190.17
612-3. Provincial Mental Hospital, Ponoka	1,363,150.42	500,409.18	398,691.84
612-4. Provincial Auxiliary Mental Hospital.			
Claresholm	54,406.19	25,510.86	20,836.56
612-5. Provincial Auxiliary Mental Hospital.			
Raymond	74,325.13	26,154.50	30,095.86
650. Rosehaven, Camrose		129,514.18	267,549.61
Division of Tube			
604-1. Director's Office and Clinics		51,121.60	
604-2. Baker Memorial Sanatorium, Calgary	671,607.14	232,130.22	219,804.58
604-3. Aberhart Memorial Sanatorium,			
Edmonton	662,704.48	178,937.39	182,786.69
	\$ 6,163,545.29	\$20,674,094.55	\$ 4,819,579.87
Total Expenditure - Public Health Department			\$26,837,639,84
Less: Public Health Revenue			4,819,579.87
Net Expenditure - Department of Public Health			\$22,018,059.97

The Vital registrations during the year were as follows:

Births	34,951
Marriages	9,965
Deaths	7,786

The population for 1956, according to the Federal Census, was 1,123,116 and, therefore, the following rates have been recorded:

Year	No. of Births	Birth Rate	No. of Marriages	Marriage Rate	No. of Deaths	Death Rate
1951	27,003	28.7	9,305	9.9	7,167	7.6
1952	29,105	30.0	9,514	9.8	7,345	7.6
1953	31,376	31.3	10,126	10.1	7,646	7.6
1954	33,593	32.3	9,960	9.6	7,520	7.2
1955	34,357	32.2	9,844	9.2	7,956	7.5
1956	34,951	31.1	9,965	8.9	7,786	6.9

On the whole these figures are good. The total number of births is up although the birth rate is down slightly. The natural increase (excess of births over deaths) was 27,165.

Under a Federal Health Grant and with technical assistance from the College of Physicians and Surgeons, a special investigation was started last year into the causes of neo-natal deaths. This continued in 1956. A special investigation is being made as to the cause of death for every case occurring in Alberta. An assessment is made as to whether or not the death might be regarded as preventable and the practitioner in the particular case is informed as to the opinion of the group which is making the study. This has progressed to the point where it is now evident that valuable information will be obtained. Good results are also to be noted from the assistance rendered to the practitioner by the expert committee under this study.

The number of polio cases has again been reduced. Evidence is accumulating showing the effectiveness of the polio vaccine program. For example, this year has seen an improvement in the infection rate and in the number of polio deaths in the age group where the polio inoculation program has been used. The inoculating program was continued at an increasing rate.

The tuberculosis death rate is again down, more than offsetting the unexpected rise of last year.

At Fort Macleod a new Health Unit was opened, with a complete staff taking the place of a service which had previously been operating with only two nurses. Another new Unit was opened in the Wetaskiwin-Ponoka area. This brings the population within Local Health Units to about 566,000 and, combined with the cities, 1,003,000 people are under full-time public health services. This is 92% of the province.

During 1956 the old Divisions called Communicable Diseases, Health Units, Municipal Nursing, Health Education, Entomology and Nutrition Services were re-organized into one Division, namely, the Division of Local Health Services under the general direction of Dr. E. S. Orford Smith who was newly appointed to that work.

This year the Cerebral Palsy Clinic at Calgary moved to their own new quarters which gives them ample space for the foreseeable future.

The staffs of the various Divisions have again been very helpful in maintaining the services of the Department. Their help has been much appreciated.

Respectfully submitted

A. SOMERVILLE, B.A., M.D., D.P.H. Deputy Minister of Health

Division of Local Health Services

E. S. ORFORD SMITH, M.B., D.P.H., Director

The Division of Local Health Services was formed in September, 1956, by the amalgamation of the Divisions of Communicable Diseases, Health Units, Municipal Nursing, Health Education, Nutrition and Entomology.

The object of this amalgamation was to co-ordinate the services offered by the Department to public health workers in the field.

Reports of the sub-divisions follow.

COMMUNICABLE DISEASES

E. S. ORFORD SMITH, M.B., D.P.H., Director

Responsibility for the control of communicable diseases, with the exception of tuberculosis and venereal diseases, was undertaken by means of consultation and supervision, the collection of information and the distribution of immunizing agents.

POLIOMYELITIS

1956 was the quietest of five consecutive years for poliomyelitis. 79 cases were reported, of which 39 were paralytic and 40 non-paralytic.

Poliomyelitis vaccine was distributed to local health authorities, and was sufficient to cover the immunization of school children up to grade four, pre-school children in their last two years before school, expectant mothers due to be confined between 1st June and 31st October, and physicians and nurses up to age 40.

Only one case of poliomyelitis was reported in a child who had been inoculated.

TYPHOID FEVER

An outbreak of typhoid fever occurred during the summer in the women's section of the Provincial Gaol at Fort Saskatchewan. Eight cases were reported among prisoners in residence; one other woman developed the disease after her release and died. The outbreak was traced to a female prisoner who worked in the kitchen and was found to be a carrier.

DIPHTHERIA

The occurrence of 19 cases of diphtheria, including several in a children's home in Edmonton, served as a reminder that this infection continues to be endemic, and that a high level of immunization among children must be the constant aim of those concerned with its prevention.

VACCINES AND SERA

In addition to poliomyelitis vaccine, which has been mentioned above, materials are supplied free to local health authorities for active immunization against smallpox, diphtheria, whooping cough, tetanus, typhoid and paratyphoid fevers, Rocky Mountain spotted fever and rabies.

Immune serum globulin is also supplied free for the passive protection of contacts exposed to poliomyelitis or infectious hepatitis, of young or debilitated children exposed to measles, and of expectant mothers exposed to rubella.

The total cost of biological products used in communicable disease control was \$283,273.00.

TABLE 1

NUMBER OF CASES OF COMMUNICABLE DISEASES REPORTED IN THE YEARS
1955 AND 1956

	1955	1956
Acute Anterior Poliomyelitis	244	81
Diphtheria	10 10	19 1.109
Pood Infections	34	1,109
Measles	7.136	2.047
Menengitis	11	2
Paratyphoid Fever	7	7
Rocky Mountain Spotted Fever		
Rubella	574	994
Scarlet Fever and Septic Sore Throat	741	642
Smallpox		9 10 3
Tetanus		4 000
Tuberculosis—Pulmonary	1,023	1,035
Tuberculosis-Non-pulmonary	90	98
Typhoid Fever	8	22
Undulant Fever	1	1
Trachoma	1	1
Whooping Cough	791	547

TABLE 2

DEATHS ASCRIBED TO COMMUNICABLE DISEASES IN THE PROVINCE OF ALBERTA

FOR THE YEARS 1955 AND 1956

	195	5	1956		
Name of Disease	Total Deaths	Rate per 100,000 of population	Total Deaths	Rate per 100,000 of population	
Acute Anterior Poliomyelitis	8	0.7	3	0.3	
Gastroenteritis and Colitis (except Diarrhoea of the Newborn)	54 1	5.1 0.1	64 0	5.7 0.0	
Influenza Measles	44 24	4.1 2.3	35 2	3.1 0.2	
Meningococcal Meningitis	2	0.2	4	0.4	
Pneumonia (all forms)	326	30.6	326	29.0	
Sore Throat	1	0.1	0	0.0	
Smallpox		6.0	36	3.2	
Tuberculosis (Other)	17	1.6 0.2	7	0.6 0.1	
Paratyphoid and other Salmonella	_				
infections	0	0.0	1	0.1 0.1	
Whooping Cough	1	0.1	3	0.3	

Population of Alberta in 1955 1,066,000 Population of Alberta in 1956 1,123,116

TABLE 3: COMMUNICABLE DISEASE CASES REPORTED IN 1956 BY SEX, AGE AND MONTH OF REPORTING

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	Edmonton Calgary Lethbridge Urban Rural	Total		Edmonton Calgary Lethbridge Urban Rural	Total		Edmonton Calgary Lethbridge Medicine Hat	Rural	Total		Edmonton Calgary Lethbridge Medicine Hat Urban Rural	Total

TABLE 3: COMMUNICABLE DISEASE CASES REPORTED IN 1956 BY SEX, AGE AND MONTH OF REPORTING (CONTINUED)

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TABLE 4 INCIDENCE OF SOME OF THE MORE SERIOUS COMMUNICABLE DISEASES FOR THE TEN-YEAR PERIOD, 1947 - 1956

Date	Population	Total Cases	Total Deaths	Mortality Rate per 100,000 of population
	DIPHT	THERIA		
1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	822,000 846,000 871,000 895,000 939,501 970,000 1,002,000 1,039,000 1,123,116	86 52 59 13 2 11 28 35 10	7 6 12 1 1 3 2 1 0	0.9 0.7 1.4 0.1 0.1 0.1 0.3 0.2 0.1
	TYPHOI	D FEVER		
1947 1948 1949 1950 1951 1952 1953 1954 1955 1956	822,000 846,000 871,000 895,000 939,501 970,000 1,002,000 1,033,000 1,066,000 1,123,116	17 13 13 13 37 16 9 5 8 22	1 0 1 0 2 1 1 2	0.1 0.0 0.1 0.1 0.0 0.2 0.1 0.1 0.2
	POLION	IYELITIS		
1947 1948 1949 1950 1951 1951 1952 1953 1954 1955 1956	822,000 846,000 871,000 895,000 939,501 970,000 1,002,000 1,039,000 1,066,000 1,123,116	84 380 127 143 84 774 1,399 550 244 81	7 28 9 7 2 81 109 31 8 3	0.9 3.3 1.0 0.7 0.2 8.3 10.9 3.0 0.7
	WHOOPI	NG COUGH		
1947 1948 1949 1950 1951 1952 1953 1953 1954 1955 1955	822,000 846,000 871,000 875,000 939,501 970,000 1,002,000 1,039,000 1,066,000 1,123,116	972 1,178 98 120 827 1,105 1,085 842 791 547	9 11 5 3 7 8 12 7 1	1.1 1.3 0.6 0.3 0.7 0.8 1.2 0.7 0.1
	SCARLE	T FEVER		
1947 1948 1949 1950 1951 1953 1953 1953 1954 1955		225 248 865 2,309 2,304 3,829* 2,173* 1,363* 741* 642*	0 0 0 0 6 2 3 0	0.0 0.0 0.0 0.0 0.6 0.2 0.3 0.0 0.1
*NOTE: Represents combined	i total of Scarlet	Fever and Septi	c Sore Throat	
	SMAI	LLPOX		
1947 1948 1949 1950 1951 1951 1952 1953 1954 1955 1956	822,000 846,000 871,000 895,000 939,501 970,000 1,002,000 1,032,000 1,066,000 1,123,116	0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

HEALTH UNITS

E. S. ORFORD SMITH, M.B., D.P.H., Director

The Health Units in Alberta provide a generalized public health program to predominantly rural areas. The service for which they are responsible include:

- (1) Prevention and control of communicable diseases
- (2) Local control of tuberculosis
- (3) Maternal and child health programs
- (4) Mental hygiene
- (5) Health education
- (6) Sanitary inspection
- (7) School Health Services

Health units may also provide a dental service for the benefit of children up to the age of sixteen years, but only one Health Unit was able to offer such a service during the year under review.

Each health unit is administered by a board of local municipal councillors, while the Department serves in an advisory capacity. The approved cost of operation is borne 40% by the local contributing authorities in proportion to their population, and 60% by the Provincial Government.

Two new health units were formed during 1956, the Wetoka Health Unit with headquarters at Wetaskiwin, and the Chinook Health Unit with headquarters at Fort Macleod. One established health unit, the Bow Valley Health Unit, was meanwhile dissolved and absorbed by three other existing health units. The following eighteen health units were in operation at the close of the year:

Alberta East Central Health Unit, Stettler. Athabasca Health Unit, Athabasca. Barons-Eureka Health Unit, Coaldale. Chinook Health Unit. Fort Macleod. Drumheller Health Unit, Drumheller. Foothills Health Unit, High River. Grande Prairie Health Unit, Grande Prairie. Jasper Place Health Unit, Jasper Place. Leduc-Strathcona Health Unit, Edmonton. Medicine Hat Health Unit, Medicine Hat. Minburn-Vermilion Health Unit. Vermilion. Mount View Health Unit, Calgary. Peace River Health Unit, Peace River. Red Deer Health Unit, Red Deer. Stony Plain-Lac Ste. Anne Health Unit, Stony Plain. Sturgeon Health Unit, Edmonton. Vegreville Health Unit, Vegreville. Wetoka Health Unit, Wetaskiwin,

Staff members of health units comprised the following:

Medical Officers	18
Dentists	1
Public Health Nurses	82
Sanitary Inspectors	24
Dental Assistants	1
Stenographer-Technicians	25
Secretary-Treasurers	18

A three-day Health Unit Conference was held during November, and was attended by Board Members, Medical Officers of Health and Secretary-Treasurers. An opportunity was provided for the discussion of both technical and administrative problems, and an Executive Committee of Health Unit Board Members was appointed to present certain recommendations to the Minister.

MUNICIPAL NURSING

DOROTHY MCPHAIL, R.N., D.P.H.N., Director

In 1956 there were thirty-three full time Municipal Nursing Stations in operation; twenty of these were located in Local Improvement Districts as compared to twenty-seven in 1955, and thirteen in Municipal Districts as compared to six in 1955.

On April 1st, 1956, the following centres were transferred, for purposes of administration, from the Department of Health to the local Councils of the Municipal Districts:

Alder Flats—M.D. of Wetaskiwin No. 74 Winfield—M.D. of Wetaskiwin No. 74 Breton—M.D. of Leduc No. 75 Lindale—M.D. of Leduc No. 75 Fawcett—M.D. of Westlock No. 92 Vauxhall—M.D. of Taber No. 14 Lomond—County of Vulcan No. 2

Municipal Nursing Services operating in Local Improvement Districts during the year were as follows:

Plamondon Blueberry Mountain Slave Lake Bonanza Smith Brevnat Dixonville Sunnynook Fort Assiniboine Tangent Valleyview Hilda Hines Creek Wanham Whitecourt Kinuso Worsley New Brigden Youngstown

Structural improvements to many of the cottages, as well as two new nursing cottages, one at Peers and one at Fort Assiniboine, were made possible through the cooperation of the Department of Municipal Affairs.

Municipal Nursing Services under the jurisdiction of Municipal Districts or Counties, but supervised through this Division were as follows:

Alder Flats—M.D. of Wetaskiwin No. 74
Breton—M.D. of Leduc No. 75
Breton (Lindale)—M.D. of Leduc No. 75
Foremost—M.D. Forty Mile No. 2
Grassland—M.D. of Athabasca No. 103
Lomond—County of Vulcan No. 2
Milk River—County of Warner No. 5
Tomahawk—M.D. of Stony Plain No. 84
Tulliby Lake—M.D. of Vermilion River No. 71
Warner—County of Warner No. 5
Winfield—M.D. of Wetaskiwin No. 74
Whitemud Creek—M.D. of Smoky River No. 130

(The latter, a part-time service, has not functioned during the year 1956.)

During the year the Hines Creek nursing station was temporarily closed when a doctor took up residence for a short period of time. The nursing station at Vauxhall was permanently closed for a similar reason.

Several of the nursing stations were without nursing service during part of the year. There were twenty-four full-time Municipal Nurses on duty at the close of the year.

One nurse was given leave of absence to attend the Public Health Course at the University of Alberta.

Out of the full employment quota of thirty-three nurses, twenty-four are operating within the boundaries of full-time Health Units. They are as follows:

Blueberry Mountain Valleyview Tangent Wanham Bonanza	Grande Prairie Health Unit
Breynat Grassland Kinuso Slave Lake Smith Plamondon	Athabasca Health Unit
Tulliby Lake }	Minburn - Vermilion Health Unit
Hilda }	Medicine Hat Health Unit
Whitecourt Tomahawk	Stony Plain - Lac Ste. Anne Health Unit

The nurses in these districts rely upon the Medical Officers of the Health Units concerned for assistance and supervision in their public health activities.

Staff Education

The Annual Nursing Spring Conference was held in the Conference Room, Administration Building, and was attended by all field nurses. The theme of the Conference was "Maternal and Child Health", and was under the able direction of Miss Rachel Tasker, Lecturer in Advanced Practical Obstetrics, University of Alberta. This included revision of the "Advanced Practical Obstetrics Manual", which is used by the Municipal Nurses.

The Health Unit Senior Nurses were invited to participate in a one-day "Service Workshop". The results were most favorable, and it is anticipated that further workshops of this nature will be conducted by the Provincial office.

An extensive orientation is arranged for each new staff member, not only in the Provincial and Municipal Nursing Service, but in the Health Unit in which the nurse is to work.

Miscellaneous

Lectures in Public Health Nursing were given by the Director, to the Public Health Nursing Students, University of Alberta, and to the students in the various training schools throughout the city.

Attached to this Report is the statistical record of work accomplished throughout the Province.

STATISTICAL REPORTS FROM THE 33 DISTRICTS OPERATING IN 1956 SHOW THE FOLLOWING WORK ACCOMPLISHED

Number Treatment Consultations Public Welfare Number Treatment Consultations Public Welfare Number Miscellaneous P. H. Consultations Number Miscellaneous P. H. Consultations Number Infant and Pre-School Consultations Number Infant and Pre-School Consultations Number Treatment Home Visits to Public Welfare Number Treatment Home Visits to Public Welfare Number Treatment Home Visits to Treaty Indians Number Miscellaneous P. H. Home Visits Number Communicable Disease Home Visits Number T.B. Home Visits Contacts Number T.B. Cases Number T.B. Cases Number V.D. Cases Number V.D. Treatments Number V.D. Home Visits Number V.D. Home Visits Number Maternal Welfare Home Visits Number Maternal Welfare Home Visits Number Deliveries Number Abortions Number Cases sent to Doctor or Hospital Number of Deaths Number Cases of Communicable Disease Number Letters and Telephone Calls Number Newspaper or Radio Publicity Amount of Fees Collected	4,902 729 71 2,757 1,965 515 192 110 16 161 355 392 960 34 41 2,318 29 1,527 9,942
IMMUNIZATIONS:	
Immune Serum Globulin for Measles	51 3
Immune Serum Globulin for Mumps Immune Serum Globulin for Infections Hepatitis Number Diphtheria Toxold Number Pertussis Vaccine Number Smallpox Vaccine Number Smallpox Vaccine Number Typhoid Fever Vaccine Number Salk Vaccine (Polio) Number Salk Vaccine (Polio) Number B. C. G. Number Rabies Vaccine Number Staph. Toxold Number Patch Tests Number Old Tuberculin Tests	0.0
Total	28,882
MISCELLANEOUS:	
Number Lectures to Organizations Number Films Shown Number Generalized Clinics Number Child Welfare Baby and Pre-School Clinics Number Classes Home Nursing Number Classes First Aid	308 371 29
SCHOOL HEALTH INSPECTIONS:	
Number Pupils examined by nurse Number Pupils examined by doctor Number Pre-Schoolers examined Number Parents present Number with suspected defects:	351 227
(a) Skin Disease (b) Defective teeth (c) Diseased tonsils (d) Defective vision (e) Eye diseases (f) Defective hearing (g) Ear diseases (h) Throat diseases (i) Enlarged Cervical Glands (j) Speech defects (k) Heart and circulation defects (l) Lungs	4,090 947 996 87 190 200 385 692 33 26

(m) Development of hernia (n) Orthopedic Defects, Posture (o) Feet (p) Other (q) Nervous Disorders (r) Epilepsy (s) Psychological (t) Malnutrition	2 122 29 56 56 6 31 160
Total	9,188
Number of Correction of Defects Number of Sanitation Inspections Number of Exclusions for Communicable Diseases Number of Consultations with teacher Number of Consultations with parent Number of Consultations with parent Number of Consultations with Superintendent Number of Films Shown Number of Classroom Talks	1,392 131 484 622 667 31 26 213
IMMUNIZATIONS IN SCHOOL:	
Diphtheria Pertussis Tetanus Smallpox Patch and Mantoux Tests Salk Vaccine (Polio)	2,123 1,526 2,259 498 2,491 5,066
Total	13,963

HEALTH EDUCATION

C. C. Evoy, B.Sc., Director

Good health reports are meant to tell you what was done about your health problems and to allay your fears about the things to come. They help you with your problems by putting facts in your hands, by broadly outlining the different services you have under normal conditions, and by telling you what should be done in difficult but possible situations. They allay your fears by showing how much is being done for different diseases; how the full force of public health is applied to the control of an epidemic, the understanding of a new idea, or to give the protection obtained through immunization; how much more can be done today than was possible a generation ago, and what may be expected from today's research for the future.

Health reports by doing these things make it easier for you to do your part in your own medical care—to handle the things you should be able to manage for yourself or to seek professional advice on your personal health at the right time from the right person. They help you to face with confidence the future in which the uncertainties of health may loom larger. They help you to understand what has been done as a public service for your neighbor when she was a patient at one of our institutions or hospitals, and in this manner they help you to understand and be helpful to your fellow men.

Tours and Meetings

One of the more pleasant facets of health education is the opportunity to tour the province with a story you like to tell. The health education service is most fortunate in having a number of good health stories which are told to ready-made audiences of home and school groups, teachers, branches of the Women's Institute and others. A co-operative field staff in our health units and municipal nursing districts prepare in advance for these meetings, making all the necessary arrangements for a successful experience in health education. It is much easier to do a real job of work where you are welcomed in this manner. It is not difficult then to tell that story.

In 1956 many such settings were prepared by local health people for the Director of Health Education. The first tour of the year was a trip to Fawcett in January, to meet with a home and school group over a film on child behaviour at the six-to-nine-year level. Discussion was open, with opportunity for free exchange of ideas. New concepts were approved. As a result, individual patterns would be examined objectively: this could result in better adjustment to some of the frustrations of raising children.

An experience with the school children in the form of a lesson taught to the junior high school on the services of the Alberta Department of Public Health was a privilege and opportunity offered at this village. If our adults of tomorrow are to

intelligently use the services of the Health Department they should be educated in these experiences today. Attitudes in health education must be part of the daily experiences of a child's life.

Other meetings of this nature took place at Mount Pleasant in Edmonton, Minnehik, Breton, Lyndale and Edson.

No report on health education is complete until it has examined the scope of health teaching in the schools. Opportunity to do this was made possible through membership participation by the Director of Health Education in the preparation of curricula in Health and Personal Development in the junior and senior high school program.

A better knowledge of the health program in the schools was obtained through visits to forty junior high schools in rural and urban areas, where consultations were held with more than 200 teachers and the Supervisor of Guidance of the Department of Education.

An evaluation of the program of health education as set out in the revised curriculum guide was obtained through these discussions. The curriculum included sections on services of the Department of Public Health. A better understanding of the requirements in health education for our children has come out of these meetings with the teachers. Health teaching is no longer a recital of facts on physiology. It is part of an integrated program in the child's education.

Schools visited in these tours were at the following centers: Fawcett, Jasper Place, Minnehik, Alder Flats, Breton, Saskatoon Valley, Berrymoor, Lyndale, Athabasca, Lahieville, Perryvale, Boyle, Winterburn, Colinton, Spirit River, Rycroft, Beaverlodge, Grande Prairie, Kinuso, High River, Nampa, Brownvale, Deadwood, Fairview, College Heights, Glenwood, Cardston, Raymond, Magrath, Milk River, Warner, Strathmore, Pincher Creek, Bellevue, Lethbridge.

Teachers and nurses showed a keen interest in display material in connection with the courses in health and personal development in the junior and senior high school. Four three-panel displays were demonstrated to more than two hundred teachers in all parts of the province. Each display listed a topical heading for one grade with teacher reference and pupils' reference in health education literature and films available respectively on the three panels. Photographs of these displays were requested by the Department of Education for bulletin distribution throughout the province. Service of this nature is typical of the needs in health education in the audio-visual field.

The teaching of health in the school is a most challenging and rewarding experience. The daily problem of helping to develop good attitudes towards health, and of encouraging these to be expressed in regular healthful action which becomes part of a child's life, provides an important goal in health education. To be part of this developmental program is a privilege and an opportunity to help mould healthier citizens of today and tomorrow.

During the past year invitations were received from twelve schools to demonstrate lessons in health teaching. Topics included sanitation, nutrition, immunization, dental health and communicable disease. Each lesson besides the basic facts on the topic afforded time to explain the provincial health service relative to it and the benefits to be derived from the service by every person in the community.

Tours of this nature bring together more closely the people who are working towards a common goal. The teacher and the nurse or doctor in our local health services have an opportunity to meet in the classroom with the pupil on a subject which is so important to all. The health education program in the school is enhanced by the participation of the local health staff.

The personal interest that a nurse or doctor may take in a child following one of these demonstration lessons will remain in that child's experiences as an outstanding milestone. He will not quickly forget how "Miss Jones, our nurse, sat beside me today and showed me how to brush my teeth". The boy will put forth effort to follow through what the nurse demonstrated. It becomes part of his life. True enough, the teacher and parent have given a similar demonstration but, "You see, Mummy, it's not quite the same."

At all times it is the objective in health education to have public health personnel present when health lessons are being demonstrated in the classroom by the director of the service. Through observation and participation in these lessons the nurse or doctor is encouraged to accept invitations to assist in health education of the child.

Workshops

A continuation of the workshop in film utilization was requested again this year on two different occasions. Provision is made in this type of training for public health personnel in health unit and municipal nursing districts to be oriented in the use of projection equipment, including the 16 mm. sound film and the 35 mm. slide film projectors. Operation, care and problem solving situations are arranged so that all members of the staff have opportunity to become familiar with this phase of audio-visual education.

Observation and practice training of film utilization with role playing audiences of staff members are provided in the workshop experience. Staff taking part in this in-service training gain confidence and skill to meet situations in the health program of their district.

Conventions

Teachers' conventions are held once a year at centers where the complete staffs of a number of school divisions meet. The health of the school child is always paramount to the teacher, and it is only natural that the executive of these conventions invited this Division to provide a display of health education material for all to see. Four displays were sent out to eleven conventions on a rotation basis. The exhibit was manned by nurses and doctors from health units and municipal nursing centers serving the convention area.

These gatherings of teachers, freely discussing their experiences and problems in health with the public health staff, are strengthening the working relation ships between the Departments of Health and Education and furthering the teaching of health education.

A direct result of these displays is a continued interest in the services of the Department of Health, and constant demand for publications and films related to health education in the schools.

Conferences

Nurses from the municipal nursing districts convened on May 15-17, in the conference room of the Department of Public Health in the Administration Building. An opportunity was provided to the Health Education services to show three films. The first of these, "Biography of the Unborn", was presented as a preview for approval and given high rating. One of our recent purchases, "Sociable Sixes to Noisy Nines", was considered a valuable Home and School discussion film on the subject of normal child behavior. Another new film in our library, entitled "Obesity", met with approval with certain reservations as to its use. This form of education is valuable in getting group opinion and suggestion for use of this class of educational medium. It also serves as a testing ground for materials which are to be used for public viewing. A cross-section of field force opinion concerning educational values is much more valid than selection by departmental committee.

In November, the Health Unit medical officers and senior nurses held their first conference since the formation of the Division of Local Health Services. Representatives from each section of the Division spoke to the delegates at the conference. The Director of Health Education spoke on health education in the schools. The objective was to convey to the health unit personnel an understanding of the health curriculum and to induce the public health staff to offer assistance in the school program of health education.

The use of visiting speakers to present special phases of the health program is advised by the Department of Education in a directive appearing in the Junior High School Curriculum Guide. Some activity in this field of education has resulted from the discussion at this conference.

A more comprehensive program in health education is being attempted in different parts of the province by local health services. Renewed interest is being shown in the in-service training available through the Health Education Services.

Health Literature Distribution

Distribution of health education literature expanded during the year to the point where this phase of the work of the division alone requires almost the full-time activity of one person. During the year the total number of pieces of health education material, literature or booklets distributed reached almost half a million.

A considerable amount of thought and work was used to direct this distribution into the hands of readers who needed the materials and would use them. More than a quarter of all material distributed included books, booklets and leaflets for mothers on child care and development.

There has been a growth in the use of these materials by adult education groups of various kinds, including classes conducted by public health nurses and by Home and School groups interested in child development problems.

A continued and widening interest in the public health services of the province was reflected in the distrubtion of health education material. The newest edition of "Alberta's Health Services Program" received a wide demand.

Film Library

During the year there were 6,775 screenings of films and filmstrips from the Health Education Film Library to an aggregate audience exceeding 280,000 persons. This continued growth in the use of films and filmstrips was principally the result of a further increase in the use of films by public health workers in the province and a substantial growth in the use of health films by Home and School Associations of Alberta.

To keep pace with the growing demand, the film library has been again expanded. During the year 28 new titles have been added to the library, in addition to new copies of 16 other films already in the library. At the end of the year the library includes 388 titles, with 96 extra copies of films most in demand. There are also 185 filmstrips in the library.

One of the most popular titles during the past year by general audiences, including Home and School Associations, was "Your Health Unit", the film prepared two years ago under the direction of this division of an Alberta health unit. The two copies of this film which were in the library last year were booked for 103 screenings to an estimated aggregate audience of almost 6,000 persons. Two new copies of this film have been placed in the library.

During the year, 32 new films in health education fields were brought in and previewed. Each preview was attended by a group selected for their special knowledge and interest in the field covered by the particular film. As a result of these appraisals, selections were made for future additions to the Health Education Film Library.

The new filmstrip, "Preparing Tomorrow's Nurses", which was prepared in 1955, was completed early in 1956 and added to the Film Library. Dealing with nurses in training in Alberta hospitals, the new filmstrip is designed to assist in nurse recruitment.

Extension Activities

In addition to people reached directly in meetings and tours, the Health Educator and his staff have been able to reach a very wide section of the population in direct health education activities through the co-operation of public health workers in the province and various organizations which have included some phase of health education in their programs.

Assistance has been given to 187 local Home and School Associations across the province in the preparation and presentation of health education programs. This assistance has included provision of materials for speakers, arrangements for speakers from the Department or from one of the health units, materials for group study and discussion on health and child training topics, loan of films and in some cases attendance at the meetings.

There has been a growing interest in health education programs from Women's Institutes of the Province. Church, Y.M.C.A. and other community welfare groups have turned to in health education resources of the department for assistance in mental health and marriage training courses. The division has contributed to the educational program of a number of summer camps for youth and young people.

With the cooperation of sanitary inspectors in city health departments and health units, nine courses in sanitation and food handling have been presented at a number of points in the province. The division co-operated with the Alberta Dental Association in Dental Health Week, which stressed the importance of general dental care and good nutrition as the basis for dental health.

Presentation of a weekly radio program on health over Radio Station CKUA has been continued during the year.

Displays and Exhibits

With the cooperation of health units and municipal nurses health education displays continued to be a valuable means of bringing information regarding health services and disease prevention to the public. Some of these displays were presented at local fairs in various sections, including: Athabasca, Grande Prairie, High River and Camrose.

Others were placed in some local situation arranged for by the public health personnel in the community usually to stress some specific message which the medical officer or public health nurse wished to convey to the community, such as the need for immunization or sanitary precautions. These displays were planned and assembled by the Division to meet the specific requests.

Special health education displays were also arranged and presented at the local conventions of the Alberta Teachers' Associations during the year. These were related to the curriculum in health in the elementary and secondary schools of the province, and besides conveying information regarding the Provincial and Local Public Health Services featured materials available from the Department related to the curriculum.

During the year displays were presented to eleven conventions. One was set up and attended by the Health Education staff of the Department, three others were set up by the Division assisted by health unit or city health department staff, and seven were attended by health units in the convention areas. The Edmonton Board of Health, 14 health units and a municipal nurse cooperated in the presentation of these displays. They were viewed by more than 6,000 teachers.

Displays were also arranged for and presented at five district conventions or workshops of the Alberta Home and School Federation, as well as at the Provincial Convention. These displays featured information about the services of the Department of Public Health, including the program assistance service provided by Health Education. These displays were presented at Calgary, Edmonton, Red Deer, Peace River and Banff.

As in previous years, the Department of Public Health was represented by an exhibit at the Edmonton Exhibition arranged by Health Education. The exhibit included a display of occupational therapy work from the Provincial Mental Hospitals, a nurse recruitment display, a display from the School for Nursing Aides, a tuberculosis display, a nutritional display, and a health education display featuring the services of the Department.

School Health Curriculum Revision

Cooperation with the Health and Personal Development Curriculum Committee of the Department of Education in the revision of the new curriculum, which was started in 1955 by the Division of Health Education, was continued during the past year.

The Director of Health Education continued as an ex-оттісю member of the committee, attending meetings until publication of the Junior High School Curriculum Guide and consulted with teachers during the field testing of the draft of the Senior High School Curriculum Guide in health education.

Through the Health Education Director suggestions of various members of the Department have been made available to the Curriculum Committee and suggested revisions have been incorporated.

NUTRITION SERVICES

ELVA M. PERDUE, B.Sc., (H.Ec.), Director

Food has been recognized as one of the basic essentials for survival of man throughout the history of the world. However, only since the beginning of the present century has the study of nutrition as a *science* provided us with the information required for determining what essential food nutrients are needed in a person's daily diet to promote health.

The Alberta Department of Public Health has provided a nutrition service since 1947. During the years the Department has attempted to bring this newer knowledge to those concerned with the health of the people. It provides a program of nutrition service to public and private agencies at both the provincial and local level. Individual and group consultation is given on nutrition as it relates to nursing, education, dietetics, sanitation, industry and civil defence.

The different activities carried out by nutrition services include the following:

- (1) Group and individual consultation on food and nutrition problems with physicians, nurses, teachers and home economists.
- (2) Participation in workshops and staff conferences to assist the public health field personnel in applying the current knowledge of nutrition to all phases of their clinic and field work.
- (3) Preparation and evaluation of practical educational materials as well as the supplying of specific information on available foods, current food costs and food habits.
- (4) Through consultation with the nurses employed in the medical departments of industry the establishment of higher standards of health for workers in industry. Leaflets on nutrition and the preparation of food on such matters as good breakfasts and home-packed lunches are made available to the workers and their families.
- (5) Providing assistance in quantity—food service, menu planning, equipment buying, food planning and personnel needs and duties to matrons in municipal hospitals without a trained dietitian.
- (6) Promoting nutrition education in schools by taking part in teachers' institutes and workshops and by supplying teaching aids to the schools. Developing good food habits and learning to accept responsibility for choosing the right kind of food is a continuous process and needs to be stressed throughout all twelve grades. To this end

the teachers have been given encouragement and help to integrate nutrition in their teaching.

- (7) Arranging for a speaker or discussion leader in response to requests from local organizations. Working with Home and School Associations and other organizations to develop the liaison between home and school in extending instruction to the families of school children. The topics discussed cover such practical matters as well-balanced meals, food preservation, better breakfasts and school box lunches. The nutritionist also speaks to overweight groups intent on losing weight through group therapy. In this connection, educational materials i.e. low calorie diets, suggestions for mealplanning, tables of ideal weights, etc. are interpreted by the nutritionist.
- (8) Preparing educational materials for both public and professional groups. A mimeographed monthly entitled, "Nutritionally Speaking", is released and distributed to the public health nurses to keep them informed of the recent developments in the field of nutrition.

Direct service was limited to specific requests for assistance. Numerous conferences have taken place in the office and in the field to bring about effective use of publications. By working as a consultant to professional groups the nutritionist is able to reach more people than she could ever reach through her own direct services.

In addition to activities already described other immediate nutrition services include:

- 1. Co-operation with other provincial agencies in the nutrition field.
- 2. Preparation and distribution of a quantity-recipe booklet to municipal hospitals and welfare institutions.
- 3. Provision of instruction on conducting rat-feeding experiments for teachers and public health nurses.
- 4. Participation in the In-Service Training course for Sanatarians.
- 5. Attendance at the Dominion-Provincial Nutrition Committee Meeting.
- 6. Completion of two courses of training, Emergency Feeding and Writing for Homemakers.

The continuing goal of the nutrition program shall be the development of sound food habits though education based on the proven facts of nutritional science.

ENTOMOLOGY

J. H. Brown, B.Sc., M.Sc., F.A.P.H.A., M.R.S.H.

The Division of Entomology deals with insect-borne diseases, with particular attention being paid to Rocky Mountain Spotted Fever and Colorado Tick Fever, Bubonic Plague, Tularaemia and Encephalomyelitis.

Other insect problems, such as fly and mosquito control, insecticides, insect infestations in food-stuffs and insect pests of institutions, fall within the work of the Division. Furthermore, a considerable amount of time is devoted to determining the distribution of insects, ticks and mites that are involved in the transmission of human diseases.

Tick Survey

Rocky Mountain Spotted Fever Ticks are well established in Alberta. Their known and supposed range embraces all of that part of Alberta south of a line from Empress to Calgary, and thence north and west in the foothills and mountains north to Fort St. John, B.C.

During 1956 a total of 2,181 doses of Rocky Mountain Spotted Fever Vaccine were given. Of these 1,254 were given at Manyberries, Redcliff, Medicine Hat, Elkwater and Thelma. There were 927 given at Ralston.

A large number of drilling and seismographic companies also secured vaccine during 1956 for the protection of their per-

sonnel working in the foothills and mountain areas.

During 1956 the Division did not employ a Field Crew, therefore there were only a few collections made, and these were made in new areas suspected of harboring Spotted Fever infected ticks. No positives were found.

PLAGUE SURVEY

Two very large areas of plague infection, one centering on Hanna and the other on Brooks, exist in Alberta. In both of these areas plague-infected gophers and plague-infected gopher fleas are present in large numbers. The plague situation in the Brooks district is bad as the disease is spreading amongst the gophers and beginning to invade thickly settled areas.

Most of the plague infection has been found in the prairie gopher as it is the most plentiful of the susceptible animals. However, there are indications that the "pallid vole" (a small field mouse) is also carrying the infection.

It is known that there are 14 species of fleas in Alberta that are capable of transmitting plague from infected animals to man. Fortunately most of these species are not very numerous, and in many cases their distribution is limited.

A number of flea collections were made in various areas but no positives were found.

FLY CONTROL

Lethbridge Fly Control District. In 1956 the fly control program was very successful with the benefits being received by the towns, villages and dairy farmers participating far outweighing the actual cost. The main control program was at Coaldale, Fort Macleod, and Stirling. This program has become an integral part of the basic sanitation program in the district with many of the towns in the original project having now purchased their own equipment.

Camrose Fly Control. During 1956 the program was expanded and excellent results were obtained with the use of the "Tifa" fogging machine, which was purchased in 1954 on the recommendation of this Division.

MOSQUITO CONTROL

Edmonton. During 1956 the program consisted of spraying and larvaciding with DDT pellets. It was fairly effective.

Medicine Hat. The City Council and Local Medical Officer of Health were very interested in starting a control program within the city limits, and this Division advised them as to the best methods to follow. The program consisted of the use of a "Tifa" machine supplemented with larvaciding. It proved to be an economical and effective control program.

In Irrigated Districts. The mosquito problem in irrigated districts is directly connected with the poor use of water. Any control measures proposed would have to be developed in conjunction with the management of the district.

VIRAL ENCEPHALITIDES

Since the development and widespread use of poliomyelitis vaccine, interest has been aroused in the incidence of certain polio-like conditions which continue to occur even in vaccinated people. These conditions which are grouped as Viral Encephalitides are known sometimes to be transmitted by mosquitoes. The distribution of the mosquitoes involved as well as the incidence of the infection is being investigated.

SCHISTOSOMIASIS

Schistosome dermatitis is commonly called "swimmers itch", and is caused by the penetration of the skin by a small fork-tailed parasite (cercariae). In man it always follows bathing or swimming in infested lakes or ponds and is characterized by a localized area of very itchy weals.

Snails, which are the hosts for the *cercariae*, are sensitive to copper, and small quantities of it in the water will poison them. Some work has been done with the use of copper sulphate (blue vitriol), copper carbonate and copper ores in the killing of snails.

LEECHES

Last year a report was made as to a problem with leeches in Lake Linnett at Waterton. A similar episode was observed this year at Ghost Pine Lake and Surprise Lake. The methods of control which were found effectual in Lake Linnett were again used with good results.

HARVEST ITCH

Harvest itch is a skin condition somewhat similar to scabies and is caused by mites. The mites involved are normally on such vegetation as grain and grasses and are accidentally transferred to the person of harvesters and others handling such materials.

The incidence of harvest itch fluctuates from year to year and from area to area. During 1956 a large number of cases were reported from the Camrose-Stettler area with most of the cases being found in school children where it was first suspected to be scabies. A detailed investigation, with the assistance of Dr. D. MacKay, Medical Officer of Health was carried out.

MYCOLOGY

The Organism. The organisms involved are fungi, which are mould-like growths. These fungi attack man and many species of wild and domestic animals where they invade the lungs and set up serious complications. During the past five years the collections made by the Field Crews have shown that certain kinds of the fungi are well-established in Alberta.

LABORATORY

Insect Collections. Good progress is being made in arranging the collection of insects and ticks injurious to human health.

During 1956 there were also 49 separate collections of insects from different products and places, sent in for determination. The insects in these samples were identified and suitable information was supplied to the person from whom the sample had been received.

INSECTICIDES

Vaporizers are mechanical devices for releasing the fumes of lindane and other insecticides by means of electrical heating elements. Installation regulations under the Canadian Standards Association are used to control their use in food-handling establishments.

Two human cases of poisoning by insecticides were reported during the year. The first case is that of a farmer who got severe toxic symptoms which appeared to be due to the absorption of a Malathion spray through the skin.

The second case is described by Dr. J. A. Shanks and Dr. J. F. Elliott in an article which appears in the Canadian Medical Journal for August 1st, 1957.

This Division has always maintained that there is no SAFE insecticide, but that all insecticides can be used SAFELY. To give some protection in the event of poisoning, our publication on "Antidotes for Pesticides" was reprinted for wider distribution to Physicians, District Nurses and Hospitals.

The Director of the Division was permitted to attend the 11th "INTERNATIONAL NORTHWEST CONFERENCE ON DISEASE IN NATURE COMMUNICABLE TO MAN" at Salt Lake City, Utah, on August 30, 31 and September 1, 1956.

The usual educational work in regard to the control of insectborne diseases was carried out by means of radio, motion pictures, newspapers and lectures. The film "Rocky Mountain Spotted Fever in Alberta", with a commentary by the Director, was released over the local TV station and aroused much favourable comment. There were no papers published in 1956.

The usual lectures to Medical Students, Public Health Nurses, Nurses-in-Training and Undergraduates were given, and in some cases, expanded.

DIVISION OF CANCER SERVICES

V. W. WRIGHT, M.D., Director

The three Cancer Clinics in the Province of Alberta have experienced a very busy year (1956) as the tables below will reveal.

Information from 17,060 examinations carried out at the Clinics has been transferred to our research statistical record cards and these cards are being punched on an International Business Machine. When tabulation is complete we will have a complete statistical set-up for the years 1953-54-55-56.

I. Number of examinations made (Malignant and Benign) January 1 - December 31, 1956 is 17,060.

	Ĩ	vew	Rev	ew	TOTAL		
	1956	1955	1956	1955	1956	1955	
Edmonton Calgary Lethbridge	2,716 1,483 525	2,757 1,479 475	8,663 2,766 907	6,678 2,353 564	11,379 4,249 1,432	9,435 3,832 1,039	

It will be noted that the total number of examinations made in the Edmonton, Calgary and Lethbridge Clinics is 17,060 as compared with 14,306 in 1955; 13,026 in 1954; 10,827 in 1953; 9,291 in 1952 and 9,034 in 1951.

II. Number of examinations made where malignancy was proven—11,087 as compared with 8,904 in 1955 as shown in the following table:

	Edmonton	Calgary	Lethbridge	TOTAL
1955	 6,724	1,558	622 956	8,904 11,087

III. New 1956 Malignant examinations:

1,120	563	166	1,849

New 1955 Malignant examinations:

1,088	638	165	1,891
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There were 77 cases in the Edmonton Clinic which were not malignant on previous examinations where malignancy was proven this year.

There were 73 cases in the Edmonton Clinic which were malignant in previous years and reported to the Clinic for the first time this year.

IV. Number of Examinations made on patients which proved Benign—

1956	2,754	2,743	476	5,973
1955	2 711	9 974	417	5 402

The X-ray department of the Edmonton Clinic has had a particularly busy year as shown in the following table:

Number of patients Number of examinations Number of X-ray films ta					1956 3,714 4,574 14,000	1955 3,313 4,173 13,696
Therapeutic Radiology						
New patients					588	600
Treatments given by						
Cobalt 60X-ray			***************************************		5,644 4,313	4,946 5,263
Cobalt 60 and X-ray Total number of treatmen Radium insertions, implant	tss and me	oulds			345 10.302 161 141 4,143	471 10,680 142 124 6,007
NUMBER OF CASES	SUPPL	IED WITH	THE FOI	LOWING	SERVICES	
	Hosi Serv			iation rapy	Diagn X-r	
	1956	1955	1956	1955	1956	1955
Edmonton Calgary Lethbridge	922 420 315	841 575 293	628 367 134	600 310 81	4,591 781 322	4,224 555 299
	1,657	1,709	1,129	991	5,694	5,078
	Ma Surg			ratory otomy	Brea Biop	
	1956	1955	1956	1955	1956	1955
Edmonton Calgary	583 320	501 306	149 74	113 45	225 215	206 152
Lethbridge	92	61	25	19	115	94
	995	868	248	177	555	452
	Oth Biop			mostic ttages	Encep grams	
	1956	1955	1956	1955	1956	1955
Edmonton	524	359	238	193	13	10
Calgary	282 142	266 101	43 62	37 60	0	0
	948	726	343	290	13	10
	Broncho Oesopha		Sigmoi	doscopy	Cystos	сору
	1956	1955	1956	1955	1956	1955
Edmonton	90	90	203	186	206	166
CalgaryLethbridge	13 2	21 3	3 8	7 5	48 18	35 22
	105	114	214	198	272	223
	Diagn Consult	ations	Te	ratory.		
Edmonton	131	1955 133	1956 4,187	1955 6,030		
Calgary Lethbridge	34	22 2	12	12		
demorrage	168	157	4.199	6.042		
Included in Nursing						

Included in Nursing Services.

Since the opening of the Clinics in 1941 the total number of examinations made is 116,329.

DIVISION OF SOCIAL HYGIENE

P. L. RENTIERS, M.D., Director

No major changes occurred in personnel or geographical location of the clinics during 1956, active centres being maintained at Edmonton, Calgary, and Lethbridge. Early in 1956 the Edmonton clinic was moved from its old location at 10048 - 101A Avenue to newly remodelled quarters situated on the second floor of the Alberta Jasper Building. A mobile clinic is headquartered at Edmonton for service to any part of the province where a venereal disease problem might arise. The greater part of its work has been carried out amongst Indian and Metis groups in isolated areas of Northern Alberta.

In the last few years the work of the Division has in large part been directed to early case finding and rapid tracing and handling of sources and contacts reported by infected persons. In addition, emphasis has been placed on the importance of the permarital, prenatal, pre-employment, and routine hospital serological tests. Mass blood surveys have continued. Most of these were carried out by the mobile clinic, first established in 1949. Inevitably, such a program has brought to light an increased number of previously undetected cases of syphilis and a lesser number of gonorrhoea cases. An enterprise of this type can never be successfully carried out to completion by one department, and we should like to acknowledge at this time the most wholehearted co-operation and assistance granted the Division by practicing physicians, public health nurses, industrial nurses, and by both the provincial and urban police forces.

Of 2,156 persons reported during 1956 as being sources or contacts to venereal disease, 1,862 (86%) were located and brought under investigation. There were, however, 368 cases of venereal disease reported about which no contact information was given. Further improvement in venereal disease control in Alberta would appear to hinge on better management of such cases, which could be brought about by: Firstly, speedier and more accurate reporting of sources and contacts of early infectious cases. This can only be done through the increased efforts of private physicians and public health nurses. Secondly, continued improvement in the social investigation service of this Division, allowing for increased assistance to private physicians and nursing personnel, who all too often are seldom able to do the thorough inquiry for contact tracing.

It is, of course, to be expected that an intensification of efforts in this respect may in all probability again give rise to a temporary increase in the known venereal disease rate. We believe, however, that such measures will undoubtedly lead to a further true reduction over a period of years.

For 1956 Canada had a reported incidence of 16,765 cases of venereal disease, 2,093 syphilis, 14,660 gonorrhoea, and 12 other—an increase of 118 cases, or 0.7%, from the previous year, 1955, when 16,647 cases were reported (2,395 syphilis, 14,230

gonorrhoea, and 22 other). The increase in reported cases is reflected in the gonorrhoea incidence, which last year showed a downward trend compared with previous years. The incidence of syphilis continued to show a decline, there being a reduction of 302, or 12.6%, in 1956 from the previous year. Rates for syphilis and gonorrhoea per 100,000 population for Canada as a whole were as follows:

Syphilis (all types)		Sypl (Primary	nilis & Secondary)	Gonorr	hoea
1955	1956	1955	1956	1955	1956
15.4	13.00	1.1	1.1	91.4	91.3

In 1956 Alberta had a total reported incidence of 2,064 cases of syphilis and gonorrhoea compared with a reported total of 2,157 in 1955, a reduction of 93 cases (4.41%). This decrease represents a decline in incidence of both syphilis and gonorrhoea.

Alberta's population in 1956 totalled 1,123,116 persons. Approximately 4.5% of this number is estimated to be of Indian and Half-breed extraction. This 4.5% of the population accounted for 33% of the venereal disease cases reported in Alberta. Rates for syphilis and gonorrhoea per 100,000 population for Alberta in 1956 were as follows:

Syphilis (all types)		Syp. (Primary & S		Gonorrhoea			
1955	1956	1955	1956	1955	1956		
17.7	12.9	7.2	6.9	183.4	171.3		

Alberta reported 1,965 cases of gonorrhoea in 1955, whereas there were 1,921 cases reported in 1956, a decrease of 44 (2.2%). Thirty-five of the gonorrhoeal infections were reported as a direct result of investigation of persons who had positive tests for gonorrhoea but who had not been reported in the prescribed manner.

During 1956 Alberta reported 143 cases of syphilis (all types) compared with 190 in 1955, a decrease of 47 cases (24.7%). Early syphilis has shown no appreciable change while latent and late syphilis decreased from 110 cases in 1955 to 63 in 1956, a decrease of 47 cases (42.7%). In this group were included five cases who were immigrants and who acquired the infection outside of Canada. The number of congenital syphilitics reported remained the same, three cases being reported for both 1955 and 1956. It should be noted that of these two were brought to light as the result of routine blood tests being taken on admission to hospital and the other because of routine medical check when the child was placed in a foster home.

Thirty-four previously unknown cases of syphilis were reported during the year as the result of follow-up of persons in whom routine serological tests for syphilis were positive. Many such persons are still being followed who cannot be located at the present time or about whom a decision has not been made.

During 1956, 19,958 premarital serological tests for syphilis were taken of which 1,358 were haemolyzed, broken in transit or otherwise unsuitable for testing. Of the specimens tested, 53 exhibited a positive or doubtful reaction. A breakdown of this group disclosed that 15 were pertaining to persons previously reported as having syphilis (most of whom had lapsed from

supervision), 4 pertained to persons found to be new cases of syphilis, 9 were found to be false positives, further tests being reported as negative, and 25 are still under investigation. Many doubtful premarital cases are still being carried over from previous years.

During the summer and fall months of 1956 a combined tuberculosis and blood survey was conducted jointly by Indian Health Services and the Division's mobile clinic. Areas visited included Lesser Slave Lake, Wabasca, Desmarais, Fort Vermilion, and Upper Hay River. 1,264 blood tests were taken, 37 of which proved positive. Thirty-one persons were given 237 treatments. Six new cases of syphilis were reported. Other cases eventually reported by private physicians and public health nurses were the direct result of the mobile investigation and referral.

The Treponema Pallidum Immobilization Test has continued to be of great value, 102 specimens for this test having been submitted for the year. Of these, 24 were reported unsuitable for testing because of contamination, toxicity, or haemolysis, and 3 were broken in transit, leaving a balance of 75 specimens tested. Of the 75 specimens tested, 31 (41.33%) were negative, 44 (58.66%) were positive. Two of the 44 positive tests were repeat tests.

A break-down of the positive tests shows that 19 (43.18%) had been previously diagnosed as having syphilis and 23 (52.27%) had a diagnosis of syphilis confirmed through the Treponema Pallidum Immobilization Test.

New infections were reported by 194 doctors and 14 public health nurses in 1956. Consultation service was received by 174 doctors.

The statistical report of the Division is as follows:

ALLEGED SOURCES OF VENEREAL INFECTION OR CONTACTS For the Period January 1st, 1956, to December 31st, 1956

Location of Source of Infection or Contact		of Infection or	
Edmonton Calgary Lethbridge Remainder of Province	330 28	838 302 20 537	89 % 91 % 71 % 86 %
ALBERTA TOTALS	1919	1697	88%
Sources of Infection or Contacts reported outside of the Province of Alberta	237	165	70%
TOTALS	2156	1862	86%
Unit Forwarding Information	of Infection or		
Armed Forces Private Doctors and	149	120	81%
Provincial Clinics Other Provinces		1666 76	88 % 61 %
TOTALS	2156	1862	%98

Sources of Infection in Alberta who could not be located by Authorities Concerned
Sources of Infection outside of Alberta who could not be located by Authorities Concerned
Number of Notification Cards (N.H. 1) with no information for contact finding

DETAILS OF INFORMATION ON THE FACILITATION PROCESS

How Informant Mood Infection of		Where Informant of Infection	
Introduction Friend Marital Partner Common-law Wife House of Prostitution Casual Aquaintance Appointment	770 36% 59 3% 222 10% 262 12% 262 12% 60 0 0% 33 2% 5 .2% 576 31%	Boarding or Rooming House Restaurant or Beer Parlor Dance Hail Street or Outdoors Friend or Private House Hotel Marital Partner Recreation or Private Party Train, Bus or Depot House of Prostitution Taxi or Taxi Office At Work	353 16% 100 5% 191 99% 103 5% 168 8% 249 11% 98 4% 12 .5% 0 00% 2 .9% 9 4%

DETAILS OF INFORMATION OBTAINED ON THE CONTACT INVESTIGATION

Place of	Expos	ure	Occupation of Infection		
Rooming House Apartment Private House Outdoors Car or Truck Train, Boat, Motel Taxi or Taxi Office Hotel Room, House or Shack House of Prostitution No Data Available	192 30 253 67 212 32 2 266 357 0 745	9% 1% 12% 3% 10% 25% 55% 16% 0% 35%	Waitress or Waiter Housewife Prostitute or Street Walker Domestic, Hotel, Hospital Maid Clerk, Salesman, Steno, Teacher, Cashier Factory or Plant Worker Contractor or Construction Worker Service Personnel Unemployed Laundress or Dry Cleaners Truck, Taxi or Bus Driver Farmer, Trapper, Fisherman Nurse, Nurses' Aide Dressmaker, Tailor or Hairdresser Laborer or Transient Tradesman, Electrician or Plumber Student, Usherette, Coat Checker Switchboard or Telephone Operator Janitor Fireman, Trainman, Policeman No Data Available	176 73 52 107 74 3 14 12 18 12 56 20 15 9 98 44 13 97 6	8 % 3 % 2 % 5 % .1 % 1 % 1 % 1 % 1 % 1 % 4 % 4 % 4 % .3 % .2 % 62 % 62 %

PROVINCIAL CLINIC, Alberta Jasper Building, 9815 Jasper Avenue, Edmonton, Alberta Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient:

		der	1 ye	-4 ars	-	14 ars		-19 ars		yrs. over		not ated	Totals
	M	F	M	F	M	F	M	F	M	F	M	F	
Chancroid Gonorrhoea (All Forms) Acquired—Primary Acquired—Secondary Acquired—Latent							28 2	45 1	502 22 1	180 2 10 3			755 27 11 8
Acquired—Dateilt			******						9		******	******	
TOTALS							30	46	531	195			802
Number of Cases of Chancroid—Male 1, Female 0 Number of Cases of Syphilis—Male 30, Female 16 Number of Cases of Gonorrhoea—Male 530, Female 225 Number and results of Serological Tests for Syphilis: 7,218 of which 386 were positive. Number and results of Darkfield examinations: 101 of which 15 were positive. Number and results of Cerebrospinal Fluid Tests: 11 of which 1 was positive. Number and results of Bacteriological tests for gonococci: 2,607 of which 694 were pos Number and results of Cultures taken for gonococci: 1,664 of which 287 were positive. Total number of Patient Visits										 7e. posi	1 46 755 tive.		
Total number of New Admi Total number of Old Infect			ollow-	up fi	rst ti	me in	Curr	ent v	ear_				856
Syphilis													105 77

PROVINCIAL CLINIC, 711 - 3rd STREET EAST, CALGARY, ALBERTA
Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient

		der ear	1. ye	-4 ars		14 ars		-19 ars		yrs. over	sta		Totals
	M	F	M	F	M	F	M	F	M	F	M	F	
Gonorrhoea (All Forms) Acquired—Primary						1	27	27	262 3	139			456
Acquired—Secondary Acquired—Latent									2				2
TOTALS						1	27	27	268	139			462
Number of Cases of Syphili Number of Cases of Gonori Number and results of Ser Number and results of Da Number of Cerebrospinal Number and results of Bac Number and results of cult	rhoea ologic rkfiel Fluid teriol	: Mal al Te d exa Test	e 289 sts fo imina s: 7	or Syntions: of which for	nale : hilis : 19 (lich 4 gonoc	167 3,669 of wh were occi:	9 of valich 1 posi 2,704	which was tive.	158 posit	were jive.	positiv	ve.	6 456 e.
Total number of Patient V	7isits nission	ns											6,838 689
Total number of Old Infec Syphilis Gonorrhoea													75 2

LETHBRIDGE CLINIC, 315 - 10th STREET SOUTH, LETHBRIDGE, ALBERTA Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient

		Under 1-4 5-14 15-19 20 yrs. 1 year years years years & over							not ted	Totals			
	M	F	M	F	M	F	M	F	M	F	M	F	
Gonorrhoea (All Forms) Acquired—Tertiary (Cardiovascular)							2	2	16 1	5			25 1
TOTALS							2	2	17	5			26
Number of Cases of Syphilis Number of Cases of Gonorr Number and results of Ser Number and results of Dar Number and results of Cer Number and results of Bac Number and results of Cult Total number of Patient V	hoea: ologic kfield ebros eterio cures	Male cal To d Exa pinal logica taker	e 18, ests mina Fluid I Tea I for	Fema for Syntions d Tes sts for gonor	ts: 5 r Gor cocci:	: 172 whice of whococce	th 0 which 0	ere p were of w	positive pos	ve. tive. 17 we	ere po	ositive	1 25
Total Number of New Adr Total Number of Old Infec	nissi	ns											48
Syphilis Gonorrhoea													19 1

PROVINCIAL GAOL, FORT SACKATCHEWAN, ALBERTA Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient

	Under 1 year		1 yea	-4 ars		14 ars		-19 ars		yrs. ver		not ted	Totals
	M	F	M	F	M	F	M	F	M	F	M	F	
Gonorrhoea (All Forms) Acquired—Secondary							1	11	25	86 1			123 1
TOTALS			*****			******	1	11	25	87			124
Number of Cases of Syphil Number of Cases of Gonorr Number and results of Ser	hoea:	Mal	e 26,	Fema	le 97								1 123

Number of Cases of Gonorrhoea: Male 26, Female 97.

Number and results of Serological Tests for Syphilis: 3,216 of which 72 were positive.

Number and results of Cerebrospinal Fluid Tests: 0 of which 0 were positive.

Number and results of Bacteriological tests for gonococci: 1,531 of which 149 were positive.

Number and results of Cultures taken for gonococci: 1,479 of which 121 were positive.

PROVINCIAL GAOL, LETHBRIDGE, ALBERTA Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient

	Under 1 year		1- yea	~	-	14 ars		-19 ars	20 ; & o	yrs. ver	Age sta	not ted	Totals
	M	F	M	F	M	F	M	F	M	F	M	F	
Gonorrhoea (All Forms)	*****						1		5				6
Acquired—Primary									1				1
Acquired—Latent									1				1
Acquired—Tertiary (Neurosyphilis)			******				******		T	*****		******	
TOTALS							1		8				(

MOBILE CLINIC—LESSER SLAVE LAKE AREA, Wabasca, Desmarais, Fort Vermilion and Upper Hay River

Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient

	Un 1 y	der ear	-	-4 ars	5- ye	14 ars		-19 ars	20 ; & o	yrs. ver	Age	not	Totals
	M	F	M	F	M	F	M	F	M	F	M	F	
Acquired—Latent							1		2	3			6
TOTALS							1		2	3			6
Number of Cases of Syphili Number of Cases of Gonori Number and results of Serc Number and results of Cer- Number and results of Bac Total number of Patient Vi Total number of Treatment	hoea logic bros teriol sits	: Ma al Te pinal ogica	le 0, ests fo Fluid I test	Fema or Sy l Test s for	le 0 . philis: ts: 0	1,26	4 of	which were	37 w	vere	positi	ve. ve.	6 0 1,501 237

PRIVATE PHYSICIANS REPORTING CASES

Gonorrhoea (All Forms)	1 11	31	11 273	2 3 6 3 11 2 2	M 42 3 1 3	F 12 2 	409 3 21 12 24 4 11
Syphilis (Congenital) 1 2 Acquired—Primary 1 Acquired—Secondary 1 Acquired—Acquired—Tertiary 1 (Cardiovascular) Acquired—Tertiary 1 (Neurosyphilis) Acquired—Tertiary 1 (Other) Type Undetermined 1 TOTALS 1 1 1 4 32 Number of Cases of Syphilis: Male 42, Female 35 Number of Cases of Gonorrhoea: Male 346, Female 63 Number of Doctors in the Province receiving consultative servi	i		3 3 2 8	2 3 6 3 11 2 2	3	1 2	3 21 12 24 4
Acquired—Primary		1	3 3 2 8	6 11 2	1	2	12 24 4
Acquired—Latent Acquired—Tertiary (Cardiovascular) Acquired—Tertiary (Neurosyphilis) Acquired—Tertiary (Oter) Type Undetermined TOTALS 1 1 1 1 4 32 Number of Cases of Syphilis: Male 42, Female 35 Number of Cases of Gonorrhoea: Male 346, Female 63 Number of Doctors in the Province receiving consultative servi	2 2 		2 8 2	11 2 2	1		24
Acquired—Tertiary (Cardiovascular) Acquired—Tertiary (Neurosyphilis) Acquired—Tertiary (Other) Type Undetermined TOTALS 1 1 1 4 32 Number of Cases of Syphilis: Male 42, Female 35 Number of Cases of Gonorrhoea: Male 346, Female 63 Number of Doctors in the Province receiving consultative servi	2		2	2 2 2	3		4
(Cardiovascular) Acquired—Tertiary (Neurosyphilis) Acquired—Tertiary (Other) Type Undetermined TOTALS 1 1 1 1 4 32 Number of Cases of Syphilis: Male 42, Female 35 Number of Cases of Gonorrhoea: Male 346, Female 63 Number of Doctors in the Province receiving consultative servi				5 2	3		_
Acquired—Tertiary (Neurosyphilis) Acquired—Tertiary (Other) Type Undetermined TOTALS 1 1 1 4 32 Number of Cases of Syphilis: Male 42, Female 35 Number of Cases of Gonorrhoea: Male 346, Female 63 Number of Doctors in the Province receiving consultative servi			6		3		11
Acquired—Tertiary (Other) Type Undetermined TOTALS 1 1 1 1 4 32 Number of Cases of Syphilis: Male 42, Female 35 Number of Cases of Gonorrhoea: Male 346, Female 63 Number of Doctors in the Province receiving consultative servi				. 1			- 1
(Other) Type Undetermined TOTALS 1 1 4 32 Number of Cases of Syphilis: Male 42, Female 35 Number of Cases of Gonorrhoea: Male 346, Female 63 Number of Doctors in the Province receiving consultative servi							1
TOTALS							
Number of Cases of Syphilis: Male 42, Female 35 Number of Cases of Gonorrhoea: Male 346, Female 63 Number of Doctors in the Province receiving consultative servi				. 1			1
Number of Cases of Gonorrhoea: Male 346, Female 63 Number of Doctors in the Province receiving consultative servi	2 16	32	16 306	61	49	15	486
Number of doses of Bismuth distributed to Private Physician. Number of Units of Penicillin distributed to Private Physician. Procaine G in Oil) 15 vials (3,000,000 U. Duapen) Number of tablets of Penicillin Vee Oral to Private Physicians. Number of capsules of Aureomycin distributed to Private capsule)	ice ns sians:	ervice dans dans vsicians	s: 1,039	vials	s (3,0		

NEW CASES OF SYPHILIS AND GONORRHOEA REPORTED IN ALBERTA—1956 Total Number of New Cases of Venereal Disease Classified as to Sex and Age of Patient

		der ear	_	-4 ars	_	-14 ears		5-19 ears		yrs. over		not ited	Totals
	M	F	M	F	M	F	M	F	M	F	M	F	
Chancroid							*****		1				1
Gonorrhoea (All Forms)		1		1		3	113	96	1206	446	43	12	1921
Syphilis (Congenital)				2									3
Acquired—Primary							3	1	40	4	3	1	52
Acquired—Secondary								3	5	17			25
Acquired—Latent					*****		1	2	18	17	1	2	41
Acquired—Tertiary						*			3	2			5
(Cardiovascular) Acquired—Tertiary (Neurosyphllis)									8	2	3		13
Acquired—Tertiary(Other)			i					*****		1			1
Type Undertermined									2	1			3
TOTALS	1	1		3		3	117	102	1283	490	50	15	2065
Total Number of Cases of Total Number of Cases of Total Number of Cases of	Chan	croid:	Male	1, F	'emal	e 0							143 1 1,921

TOTAL NUMBER OF CASES ADMITTED TO THE VARIOUS CLINICS OF THE DIVISION OF SOCIAL HYGIENE

Sex Male Female	Chancroid 1	Syphilis 43 20	Gonorrhoea 869 496	Total 913 516
TOTALS	1	63	1,365	1,429

CASES REPORTED BY DOCTORS AND MILITARY AUTHORITIES

Private Physicians Armed For

Syphilis	77 409	3 147	80 556
TOTALS	486	150	636
Total Number of Cases of Chan Total Number of Cases of Syphi Total Number of Cases of Gonor	lis Reported in Alberta		143
Total Number of Cases of Chanc Total Number of Cases of Syph Total No. of Cases of Gonorrho	ills Reported in Albert.	a exclusive of Armed Personne	1 140

REPORT OF THE PROVINCIAL LABORATORIES

R. D. STUART, M.D., Director

During 1956 the Provincial Laboratories carried out 396,933 examinations, an increase of 27,907 over 1955. It is noticeable that this expansion is evident in practically every section of the Edmonton laboratory which recorded a 10% overall increase, whereas the figures from the majority of the sections of the Calgary laboratory have remained steady.

Special Trends

There has been no further development in the provision of facilities for virus diagnosis, though the plans, mentioned in last year's report, have continued to mature. It is understood, however, that Departmental approval has now been obtained for the construction of a new wing to the Provincial Laboratory. The plans include space for the development of a virus service. The new wing also includes space and facilities for the evolution of an extended hospital diagnostic and reference service in pathology and bacteriology. In view of the prospective increase in such services this seems a desirable and necessary trend.

The most noticeable trend in community disease during the year is the marked increase in bacillary dysentery. This is readily evident in the figures from the southern laboratory, where 30 isolations were recorded as compared with 8 in 1955. The Edmonton laboratory recorded 74 isolations, with a much wider variety of bacterial species though with a smaller total number of isolations than in the preceding year. In 1955 one local outbreak of sonnei dysentery was extensively investigated, whereas this year only representative isolations were obtained from a much larger series of outbreaks and a much greater number of cases. The increased number of examinations for diphtheria carried out in both laboratories may be coincidental but may be an early indication of some increase in this disease in the Province.

Another trend which has indirectly affected both laboratories is the growing interest in hospital hygiene. This has arisen as a direct consequence of the increased incidence of hospital staphylococcal infections mentioned in last year's report. Both your laboratories have been concerned with this, in the direct examinations of hospital materials and personnel, and in a large amount of consultant service which is not indicated in the following tables.

New or Supplementary Services

The new service, anti-streptolysin tests on blood serum, offered by the central laboratory last year has been extended. 811 sera were received for investigation from cases such as

rheumatic fever or glomerulonephritis, in which the streptococcal etiology was reasonably evident, to cases of mild arthritis, fatigue and muscle pains, and various cardiac conditions in which the establishment through this test of a streptococcal etiology would be beneficial in therapy.

As might have been expected from the increasing importance of staphylococcal infections and the increased interest in determining their mode of spread in hospitals the new bacterial phagetyping service has been extensively employed. During the year 5290 strains of staphylococci were typed as compared with 1,306 last year. This involved no less than 46,176 individual tests though the smaller figure has been shown in the accompanying tables to avoid over-emphasis on this work. In Calgary, a newly recognized clinical entity, staphylococcal diarrhoea in infants, has been investigated by Dr. E. Crichton, and is now readily diagnosed by laboratory methods. This service has already been extensively used by local physicians.

The identification, in studies carried out by Dr. C. R. Amies during the year, of a new bacterial agent probably responsible for a considerable amount of minor genito-urinary infection in males and females, has opened the way for a possible supplementary service. Development of this will necessarily await clinical demand and availability of suitable staff.

A most important, but very time-consuming, supplementary service during 1956 has been the distribution of Poliomyelitis Vaccine. This has been carried out on a province-wide scale from the Central Laboratory in Edmonton in collaboration with the Division of Communicable Diseases. The shipping agencies are so varied and the necessity for adherence to a detailed time schedule is so evident that the amount of staff time consumed in the process can readily be appreciated.

Regular Services

In Pathology the microscopic examination of human tissues, especially for evidence of malignant changes, has continued to be a major activity. Dr. Macgregor points out that in the central laboratory these examinations have increased by over 1,000 (approximately 8%) from the previous year, while the Calgary increase of 888 is even more dramatic, being 21% over the previous year's total. In Edmonton, 978 cancers were thus diagnosed or confirmed and in Calgary 394 were similarly identified.

In the very large volume of routine diagnostic specimens received in the laboratories many interesting and unusual cases have appeared. Examples of these from the bacteriological section of the Central Laboratory include a brain abscess, caused by Pasteurella multocida, secondary to a respiratory infection with the same organism. This organism is normally associated with certain forms of animal disease and is rarely a human pathogen. One case of abdominal actinomycosis was encountered and a most unusual case of cutaneous diphtheria in an adult was diagnosed. The laboratory identification of these unusual conditions reflects great credit on the technical personnel primarily concerned.

The examinations listed under "Sanitary Bacteriology" have tended to increase in the Edmonton laboratory but have shown a sharp decrease in Calgary. This is accounted for by the

fact that the City of Calgary Health Department now operates a small laboratory to process milk and water samples obtained within the city boundaries.

The continual increase in requests for examinations for fungus infection is again evident. In response to this, Dr. Carmichael wrote a "Physician's Guide to Alberta Mycoses" which was published in the Alberta Medical Bulletin last December. A number of reprints of this article have been obtained and will be issued to Alberta physicians on demand. The frequency with which Trichophyton verrucosum was isolated is worthy of note. Before 1945 this fungus was considered to be a parasite of cattle only and human infections were regarded as oddities. This year T. verrucosum comprised 36.5% of our isolations at the Edmonton Provincial Laboratory, thus replacing T. mentagrophytes as our most common dermatophyte. Whether this expresses a change in the type of cattle ringworm or in the transmissibility of the organism is not yet clear.

Staff

During the year Dr. C. R. Amies was transferred from the Department of Bacteriology to head the University Department of Preventive Medicine. He has been retained however on the Provincial Laboratory staff as virologist and consultant. Until some specific provision can be made for the development of virological services Dr. Amies will continue to assist the laboratory in its current operations.

TABLE 1 EXAMINATIONS PERFORMED IN THE PROVINCIAL LABORATORIES Year 1956

1 car 1500		
CONTROL OF COMMON INFECTIONS		G-1
Diphtheria Enteric-dysentery Fungus Infections Intestinal Parasites Naso-pharyngitis Tularaemia serology Tuberculosis Undulant Fever Serology Whooping Cough	Edmonton 4,636 6,801 1,634 198 8,057 1,963 9,396 1,963	Calgary 1,100 2,380 49 59 1,387 822 1,892 822
OTHER DIAGNOSTIC AND MISCELLANEOUS	0.	**
Animal inoculations (other than T.B.) Antibiotic etc. sensitivities—disc	170 89,757 12	13 17,188
Blood cultures	1,195	182
Leptospirosis	153	
Miscellaneous Paul Bunnell test	16,371 864	3,059 226
P.M. Bacteriology	256 324	
Referred cultures	5.290	18 3
Trichomonas	3,894	6
Virus Infections	89	*****
VENEREAL DISEASE CONTROL	9	
Chancroid etc. Gonorrhoea—Smears Cultures	9,898 3,899	5,793 29
Syphilis	119,000	35,405
SANITARY BACTERIOLOGY Food Products	61	3
Milk and Cream	3,142	3,682
Water	5,898	6,635
Utensils		260
PATHOLOGY Diagnostic cytology—blood smears	200	165
Diagnostic cytology—blood sinears bone marrow	47	11
fluids	310	372
Routine diagnostic histology—specimens	13,531 354	5,170
Routine diagnostic autopsies Medico-legal autopsies	554 68	6
Referred diagnostic histology	19	1
Pregnancy Diagnosis—Frog Test	650	3014
Rabbit Test	21	100 June 1000
TOTAIS	310,184	86.749

TABLE 2

CONTROL OF ENTERIC-DYSENTERY INFECTIONS

Y INFE	CCTIONS		
	Edmonton		Calgary
	2,158 2,227 50 110 2,256		783 713 36 31 817
	34 10 2 1 2 1 8 2 1 4 56		3 2 5 14 1
	32 38 2 1 1		26 4
LOSIS			
Εć	Imonton	Calga	ıry
	4,696 (216) 2,860	88 (16 75 25	5) 6
3,752	284 23 53 31	598 15 297 153	Positive 10 5 1
IS			
	100,147 7,957 581 8,672		algary 28,323 2,919 193 3,092
	1 040		050
	577		878 190
			392
	12,331 13		7,902 6
ND CRE	AM		
	Edmonton	C	algary
	1,695 981 1,691 237 224 9		1,514 1,314 1,531 507 217 25
	No. 3,752 78 584 299	2,158 2,227 50 110 2,256 34 10 2,256 34 10 10 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	Edmonton 2,158 2,227 50 110 2,256 34 10 2,256 34 10 2,256 34 10 2,2 1 1 2,1 1 8 8,2 1 1 4 56 32 32 38 22 11 1 LOSIS Edmonton Calge (216) (16 2,860 75 1,840 25 No. Positive No. 3,752 284 598 (216) (16 2,860 75 1,840 25 No. Positive No. 3,752 284 598 31 153 LOSIS Edmonton Calge 1,696 1,840 25 A

TABLE 6

SANITARY CONTROL WATER

	Edmonton	Calgary
Water (No. of specimens) Coliform test—Presumptive Confirmed	3,877 1,949 1,063	2,776 1,871 1,893
Special Plate Count Waters found bacteriologically unsuitable	861 2,025 511	116 2,840 959

TABLE 7

SERA AND VACCINES DISTRIBUTED

(All supplied by Connaught Laboratories unless otherwise noted)

IMMUNIZING AGENTS

IMMONIZING AGENTS		
	Edmonton	Calgary
Diphtheria—Diluted Diphtheria Toxoid—1 person	27	
2½ c.c. reactors	1	_
Schick Test Toxin—25 persons	242	279
Toxoid—1 person	481	475
6 c.c.	103	149
Diphtheria combined—Diphtheria & Pertussis—1 person	618	977
9 persons	126	155
Diphtheria, Pertussis & Tetanus		
1 person	5.893	5,046
9 persons	2.848	1.151
Diphtheria & Tetanus—1 person	1.005	677
9 persons	481	179
Enteric—Typhoid—Paratyphoid—1 person	676	389
10 c.c.	780	283
Enteric Combined—T.A.B.T.—3 c.c.	537	684
25 c.c.	56	00-2
Measles - Anti-Measles—5 c.c.	454	452
Immune Serum Globulin2 c.c.	1.072	5
5 c.c.	1.782	J
Rocky Mt. Spotted Fever (Lederle Lab.)—3 c.c.	1,102	7
50 c.c.	$\frac{1}{2}$	•
Scarlet Fever—Dick Toxin—10 persons	51	79
Scarlet Fever Toxin—1 person	49	105
6 persons	25	
Strength "A"—30 doses (large)	25 1	6
Strength "B"—30 doses (large)	$\overset{1}{2}$	
	1	_
Strength "C"—30 doses (large)		
Strength "D"—30 doses (large)	1	
Strength "E"—30 doses (large)	1	0 505
Smallpox—1 point	3,006	3,585
10 points	4,063	2,777
Staphylococcal Infection - Staphylococcus Toxoid—2 c.c.	317	291
Tetanus (see Diphtheria & Enteric combined)		
Tetanus Toxoid—1 person	571	405
Whooping Cough (see Diphtheria combined)		
Pertussis Vaccine—1 person	277	383
9 persons	24	54
Vaccines, other - Autogenous Vaccine (Prov. Lab.)—25 c.c	154	15
Rabies Vaccine—14 c.c. (Connaught)	41	_
Rabies Vaccine—7 c.c. (Parke, Davis)	20	_
Poliomyeitis Vaccine 6 x 6 c.c.	5,951	_

THERAPEUTIC AGENTS

	Edmonton	Calgary
Diphtheria - Antitoxin—1,000 units	195	97
10,000 units	73	50
20,000 units	209	35
Gas Gangrene - Antitoxin—4,000 units (Parke, Davis Co.)	_	_
10,000 units (Connaught Lab.)	308	240
Scarlet Fever - Antitoxin—3,000 units (syringe)	37	40
9,000 units (vial)	10	_
9,000 units (syringe)	2	16
Snakebite Antivenin - (John Wyeth & Bros. Ltd.)—15 c.c.	2	3
Staphylococcus - Antitoxin-10,000 units	_	14
20,000 units	2	20
Tetanus - Antitoxin—1,500 units	1,262	1,454
10,000 units	29	56
20,000 units	24	5

TABLE 8 MINIMUM COMMERCIAL VALUE ASSESSED FROM RECOMMENDED PROVINCIAL SCALES

Diphtheria	Examination	Edmont	on Value	Calgar	y Value	Total
Diphtheria				1 100	\$ 1.100	\$ 5,736.00
Enteric - Dysentery						18,362,00
Fungus Infections	Enteric - Dysentery					5.049.00
Intestinal Parasites						257.00
Naso-pharyngitis						9.444.00
Tularaemia seriology 9,396 18,792 1,892 3,784 22,576 1,963 981 822 411 1,392 1,963 981 822 411 1,392 1,963 108 11 22 130						
Undulant Fever Serology	Tularaemia serology					
Undulant Fever Seriology 136 30 108 11 22 130 Animal Inoculations (other than T.B.) 170 510 13 39 549 Antibiotic, etc. sensitivities - disc 89.757 17.951 17.188 3.438 21,389 Blood cultures 1.195 2.390 182 364 2.754 Leptospirosis 153 306	Tuberculosis					
Animal Inoculations	Undulant Fever Serology					
Animal Inoculations	Whooping Cough	54	108	11	22	130.00
(other than T.B.) 170 510 13 39 549x. Antibiotic, etc. sensitivities - disc 89.757 17.951 17.188 3.438 21,389. Blood cultures 1.195 2.390 182 364 2.754. Leptospirosis 1.53 306 — — 306 Miscellaneous 16,371 16,371 3,599 3,059 19,430 Paul Bunnell test 864 1,728 226 452 2,180 P.M. Bacteriology 256 256 — — 256 Referred cultures 324 972 18 54 1,026 Special Investigations 5,290 15,870 3 9 15,879 Trichomonas 3,894 6 6 3,900 Virus infections 89 No charge 15,879 15,879 Syphilis 119,000 238,000 35,405 70,810 308,810 Cultures 3,899 3,899 29 29						W 40 00
Antibiotic, etc. sensitivities - disc tube 12 12 12 - 2 12 12 12 12 12 12 12 12 12 12 12 12 1		170				
Tube		89,757	17,951	17,188	3,438	
153 306		12			_	12.00
Leptospirosis 153 306 — 906 Miscellaneous 16,371 16,371 3,059 19,430 Paul Bunnell test 864 1,728 226 452 2,180 P.M. Bacteriology 256 256 — — 256 P.M. Bacteriology 324 972 18 54 1,026 Special Investigations 5,290 15,870 3 9 15,879 Special Investigations 3,894 6 6 6 3,900 Virus infections 89 No charge allocated 1 — 18 Chancroid, etc. 9 18 — — 18 Gonorrhoea—Smears 9,898 9,898 5,793 5,793 15,691 Syphilis 119,000 238,000 35,405 70,810 30,810 Food Products 61 122 3 6 13,881 Water 5,898 11,796 6,635 13,270 25,066	Blood cultures	1.195	2,390	182	364	2,754.00
Miscellaneous 16,371 16,371 3,059 3,059 19,430. Paul Bunnell test 864 1,728 226 452 2,180. P.M. Bacteriology 256 256 — — 256 Referred cultures 324 972 18 54 1,026 Special Investigations 5,290 15,870 3 9 15,870 Trichomonas 3,894 3,894 6 6 3,900. Virus infections 89 No charge allocated allocate		153	306			306.00
Paul Bunnell test 864 1,728 226 452 2,180 P.M. Bacteriology 256 256 — — 256 Referred cultures 324 972 18 54 1,026 Special Investigations 5,290 15,879 3 9 15,879 Trichomonas 3,884 6 6 6 3,900 Virus infections 89 No charge allocated 1 1 1 Chancroid, etc. 9 18 — 1 1 1 Gonorrhoea—Smears 9,898 9,898 5,793 5,793 15,691 3,891 29 29 3,298 3,292 29 3,298 3,292 29 3,298 3,292 29 3,293 3,298 3,292 29 3,293 3,298 3,292 29 3,293 3,298 3,292 29 3,293 3,298 3,292 29 3,293 3,298 3,292 29 3,293 3,298			16.371	3,059	3,059	19,430.00
P.M. Bacteriology			1.728	226	452	2,180.00
Referred cultures				-	_	256.00
Special Investigations 5,290 15,870 3 9 15,870 Trichomonas 3,894 3,894 6 6 3,900. Virus infections 89 No charge allocated Chancroid, etc. 9 18 5,793 5,793 15,691 Concride 3,899 3,899 5,998 5,793 5,793 15,691 Cultures 3,899 3,899 29 29 3,928 Syphilis 119,000 238,000 35,405 70,810 308,810 Food Products 61 122 3 6 128 Milk and Cream 3,142 6,284 3,882 7,364 13,648 Water 5,898 11,796 6,635 13,270 25,066 Utensils			972	18	54	1.026.00
Trichomonas					9	15.879.00
No charge allocated Chancroid, etc. 9,898 9,898 5,793 5,793 15,691						3,900.00
Chancroid, etc. 9 18 18				Ŭ	· ·	0,000100
Chancroid, etc. 9 18 18 18 15 15 15 15 15 15	Virus infections	65				
Syphilis	G1	0				18.00
Syphilis				5 703	5 793	
Syphilis 119,000 238,000 35,405 70,810 308,810 Food Products 61 122 3 6 128 Milk and Cream 3,142 6,284 3,682 7,364 13,648 Water 5,898 11,796 6,635 13,270 25,066 Utensils — 200 400 165 330 730 bone marrow 47 94 11 22 116 Routine diagnostic 1310 930 372 1,116 2,046 Routine diagnostic autopsies 13,531 67,655 5,170 25,850 93,505 Routine diagnostic autopsies 354 8,850 6 150 9,000 Medico - legal autopsies 68 6,800 — — 6,800 Referred diagnostic histology 19 190 1 10 200						
Food Products						
Milk and Cream						128.00
Water 5,898 11,796 6,635 13,270 25,00 Utensils 260 520 520 520 Diagnostic cytology—blood smears 200 400 165 330 730 bone marrow 47 94 11 22 116 Routine diagnostic 130 930 372 1,116 2,046 Routine diagnostic autopsies 13,531 67,655 5,170 25,850 93,505 Routine diagnostic autopsies 354 8,850 6 150 9,000 Medico - legal autopsies 68 6,800 — — 6,800 Referred diagnostic histology 19 190 1 10 200						
Utensils — — 260 520 520 Diagnostic cytology—blood smears 200 400 165 330 730 bone marrow 47 94 11 22 116 fluids 310 930 372 1,116 2,046 Routine diagnostic histology—specimens 13,531 67,655 5,170 25,850 93,505 Routine diagnostic autopsies 354 8,850 6 150 9,000 Medico - legal autopsies 68 6,800 — — — 6,800 Referred diagnostic histology 19 190 1 10 200						
Diagnostic cytology—blood smears 200 bone marrow 47 by 4 light 22 life 330 light 22 life 730 light 23 light 23 life 730 life	Water	5,898	11,796			
bone marrow 47 94 11 22 116 Routine diagnostic histology—specimens 13,531 67,655 5,170 25,850 93,505 Routine diagnostic autopsies 354 8,850 6 150 9,000 Medico - legal autopsies 68 6,800 — 6,800 Referred diagnostic histology 19 190 1 10 200		_				520.00
Routine diagnostic histology—specimens 13,531 67,655 5,170 25,850 93,055 Routine diagnostic autopsies 354 8,850 6 150 9,000 Medico - legal autopsies 68 6,800 — — 6,800 Referred diagnostic histology 19 190 1 10 200	Diagnostic cytology—blood smears					730.00
Routine diagnostic	bone marrow					116.00
histology—specimens 13,531 67,655 5,170 25,850 93,505 Routine diagnostic autopsies 354 8,850 6 150 9,000 Medico - legal autopsies 68 6,800 — — 6,800 Referred diagnostic histology 19 190 1 10 200	fluids	310	930	372	1,116	2,046.00
Routine diagnostic autopsies 354 8.850 6 150 9,000 Medico - legal autopsies 68 6.800 — — 6.800 Referred diagnostic histology 19 190 1 10 200	Routine diagnostic					
Medico - legal autopsies 68 6,800 — — 6,800 Referred diagnostic histology 19 190 1 10 200	histology—specimens	13,531	67,655	5,170	25,850	93,505.00
Medico - legal autopsies 68 6,800 — — 6,800 Referred diagnostic histology 19 190 1 10 200	Routine diagnostic autopsies	354	8,850	6	150	9,000.00
Referred diagnostic histology		68	6,800	_	_	6,800.00
		19		1	10	200.00
		650	3,250			3,250.00
					_	105.00
TOTALS	TOTALS	310,184	\$470,808	86,749	\$144,772	\$615,580.00

DIVISION OF SANITARY ENGINEERING

H. L. Hogge, B.Sc., P.Eng., Director

This Division provides services related to municipal waterworks and sewerage systems, the control of stream and air pollution throughout the province, sanitary inspection in areas not organized into health units and plumbing inspection in rural areas.

There was a continued increase in 1956 of the number of municipal waterworks and sewerage systems in operation. An increase of eight water and eight sewerage systems brought the totals up to 152 and 153 respectively. The expansion of existing systems, particularly in the cities, has continued and reflects the rapid growth of the urban population. Also, the extension of both water and sewage treatment facilities at Edmonton and Calgary were constructed or placed under operation. Extensions to the water treatment facilities were made at Lethbridge and water treatment plants constructed at Fairview and Claresholm.

Stream sanitation studies were an annual check of conditions in the Oldman, Bow and Athabasca Rivers and detailed studies of the North Saskatchewan River. The dissolved oxygen in the North Saskatchewan River was reduced to zero again during the winter months and odors of anaerobic decomposition were present. Aeration of the water by means of compressed air was carried out in March, however, little improvement was obtained. The primary section of the main sewage treatment plant at Edmonton was placed in operation in December and effected an improvement but not sufficient to avoid dissolved oxygen depletion in the river. The construction of the secondary, activated sludge, section of the plant proceeded but was not complete at the end of the year.

Sanitary inspectors were called on to supervise sanitation in the construction area of the pulp plant near Hinton to assist in controlling an outbreak of bacillary dysentery. Service was provided to areas not in health units and also assistance on specific problems given to health unit staffs on request.

Provincial plumbing inspectors held a one-week school for plumbing inspectors at Lethbridge in January, 1956, to assist newly appointed inspectors of towns and villages and also as a refresher course for the other plumbing inspectors.

Further details of the activities of the Division of Sanitary Engineering are included below:

I. Sanitary Inspection

The year 1956 saw the establishment of the Wetoka Health Unit and the Chinook Health Unit. A sanitary inspector was appointed in the Wetoka Health Unit during the summer but the Chinook Health Unit had not been able to obtain an inspector at the year's end. There were at the year's end, positions for one part-time and 54 full-time sanitary inspectors in the province. Four positions were vacant.

In the line of public health advances, the Town of Beaver-lodge passed a compulsory pasteurization by-law during the year, becoming the 38th urban municipality to do so. A new pasteurization plant was opened at Rycroft. Plants at Beaverlodge and Raymond ceased operations. Pasteurized milk is supplied to both these communities from nearby plants. At the year's end there were 83 pasteurizing plants in the province supplying milk to the public while a further six operated for the benefit of schools and institutions.

The Provincial Board of Health, under its regulations, issued one license to a meat canning plant which is under the supervision of the Local Board of Health of the City of Edmonton.

Final Certificates of Approval were issued covering 16 new cemeteries which completed the establishment procedure provided by the cemetery regulations. During the procedure, the proposed locations were inspected by the Division of Sanitary Engineering or by the Health Unit concerned. Where the proposed location made it appropriate, the Division co-operated with the Department of Highways or with the Municipal District concerned.

Local Boards of Health issued 14 restaurant closure orders during the year in accordance with the provisions of the restaurant regulations. This is the same number as in 1955. In ten cases (10), the required changes were made during the seven-day waiting period and therefore the premises did not actually close. In three of the remaining cases (4), the improvements were made after closure and the restaurants were permitted to re-open. One (0) was still closed at the year's end. (The figures in brackets are the comparative figures for 1955.)

In previous years, Provincial Sanitary Inspectors and Sanitary Inspectors employed by Local Health Authorities have carried out the inspections for the calssification of tourist cabins as well as making sanitary inspections of these premises. A change in the system of classification was introduced in 1956. The new system was found to be very time-consuming and the health authorities asked to be relieved of the responsibility. Arrangements were made for the Travel Bureau of the Department of Economic Affairs to assume this responsibility. Health authorities remain responsible for the supervision of sanitation in these premises.

The Division of Sanitary Engineering continued to employ three (3) Provincial Sanitary Inspectors operating from offices in Edmonton and Calgary during the year. The Provincial Sanitary Inspectors continued the program of previous years designed to assist Local Health Authorities in dealing with sanitation matters. In all, 1050 inspections were made, which compares closely with the 1051 made in 1955.

The year was featured by an extensive outbreak of bacillary dysentery, which occurred in the Hinton district. Information

obtained from the Division of Communicable Diseases indicates that there were about 682 cases between April 1st and September 30th. A large pulp mill project was under construction in this area which has not been served by a Health Unit. The population increased rapidly from approximately 300 to over 3,000. Many of the newcomers resided under conditions which were frequently very primitive and which provided only limited sanitary facilities. The conditions in the area can be said to be such as usually encourage the spread of dysentery.

The prime activities of the Sanitary Inspectors were directed at the public food handling premises in the area. Continuous efforts were made to get food handlers to adopt good sanitary practices.

The possibility of further large industrial developments taking place in parts of the province which are presently not heavily populated must be considered. In order to limit outbreaks of communicable disease at such projects, it will frequently be necessary to provide practical advice on sanitary matters. In some cases it may be desirable to establish sanitary inspectors at the project for some length of time.

The Provincial Sanitary Inspectors made a total of 211 inspections at dairy farms, milk pasteurizing plants and other milk handling premises during the year.

At the beginning of the year, there were 16 pasteurizing plants outside cities and health units. During the year this number was reduced to eight. There were, however, nine plants which Provincial Sanitary Inspectors inspected fully on a sufficient number of occasions to give some value to a system of scoring the inspection reports. The system was the same as that used for the 1955 annual report. Deductions from a maximum score of 100 are made for each condition found to be below proper public health standards.

The general and steady improvement in sanitary conditions in restaurants in the areas served by Provincial Sanitary Inspectors, which has been a feature in preceding years, appeared to be receiving a setback in 1956. Improper practices began to reappear probably, in part, due to the high rate of changes in staffs which is a feature of this industry. To curb the trend to less satisfactory conditions the number of restaurant inspections was increased. The intensive program in the Hinton area also served to increase the total number of inspections in restaurants and other food handling premises, which rose from 290 in 1955 to 420 in 1956. A scoring system, similar to that applied to the milk pasteurizing plant reports, was applied to the reports covering 86 restaurants. The average score was 54. Twenty had average scores higher than 80, 28 scores were between 60 and 80, while 37 scores were below 60.

Eighty-seven inspections of wells, other private water supplies and private sewage disposal systems were made during the year. Ninety-two inspections in these classifications were made in 1955. As a result of these inspections, which were frequently made in answer to direct requests of the users, it was possible for the Provincial Sanitary Inspectors to give useful advice concerning measures for the protection of health of those concerned.

At the year's end, the Sanitary Inspectors employed by the Division were providing a service in areas in the province with a population exceeding 100,000, not served by city health departments or health units. An intensive service in one limited area, as required by an outbreak of communicable disease, was provided. In addition, the Provincial Sanitary Inspectors provided a limited coverage of the more important matters in the field of sanitation throughout the areas they served.

II. Plumbing Inspection

The year 1956 saw the largest number of plumbing fixtures ever installed in a single year be placed in various types of buildings. The number of fixtures, as reported, totalled 65,949, and it is felt that this figure is within about 5% of the actual total. This figure is obtained by the addition of the following:

Water closets		Lavatory basins	18,567
Baths	11,231	Sinks	11,408
Laundry tubs	1.528	Special fixtures	5,250

The number of privies eliminated through the installation of plumbing was 1,528.

In January of 1956, a one-week refresher course was conducted in Lethbridge and attended by seventeen local plumbing inspectors. In every case each inspector has since expressed unreserved approval of the course. It is felt that such courses as this are very beneficial and should be continued.

This office again assisted the Department of Agriculture with short courses on plumbing. During the year, 14 such courses were conducted. Such courses are considered to be very beneficial to farmers and urban dwellers alike and will undoubtedly save these people a considerable amount financially and improve the operation of the entire plumbing system.

This branch of the Division has tended to devote considerable time to the inspection of new school construction because of the large investment of public funds involved.

There has been a marked increase in the demand for assistance from School Board Architects and Plumbing Contractors to assist with the design of the various phases of a plumbing system. Architects and Mechanical Engineers who prepare the mechanical drawings for these schools, and other large buildings, do not draw acceptable plumbing layouts. Therefore, the plumbing contractor must disregard the drawing and design his own piping installation to obtain an acceptable installation. This branch is required to give considerable time to such installations.

During the year, it was necessary to arbitrate some disputes between local inspectors and plumbing contractors. It was also necessary that assistance be given to local plumbing inspectors with regard to the inspection of large plumbing installations within their inspectorate.

The Provincial Plumbing and Drainage Regulations were amended during this year and it is now the opinion of all concerned that the present regulations are very complete in all respects and cover the installation of plumbing in a clear and comprehensive manner.

The ground temperature measuring project which was commenced in 1955 was continued during 1956 but, as yet, the information is incomplete. Therefore, it is not possible to give a final report on this project.

A project was commenced during 1956 to determine how much water was being used during a day at an average rural school. The project was put into operation in three schools near Edmonton. At the end of the year, this project was still in operation and preliminary observations reveal that the project should be a success.

This Division viewed a number of hospital plans, as well as the plans of industrial projects, housing developments, trailer parks, etc. In each case it was found that a change, or an improvement, in the original plan was required.

III. Municipal Engineering

The two main functions here are the checking and approval of design plans for new systems and extensions to existing systems, and assisting municipalities in the operation of water and sewerage systems.

New construction of extensions and new systems was quite active in 1956 as is shown in the following table:

A. New Systems

PROVIS	SIONAL	FINA	AL.	
No.	Estimated	N	ο.	Estimated Cost
Water 11	\$1,261,859.00	Water	9 \$	545,690.00
Sewer 11	802,072.00	Sewer 1	3	530,180.00
Storm Sewer 3	538,600.00	Storm Sewer	1	465,000.00
Total 25	\$2,602,531.00	Total 2	3 \$	1,538,870.00

B. Extensions to Existing Systems

	No.	RC	OVISIONAL Estimated Cost	No.	FINAL Estimated Cost
Water Supply and Treatment Sewage Treatment Water Mains and	8 1	\$	572,800.00 540,014.00	12 6	\$ 1,443,337.00 2,768,014.00
Sewers Storm Sewers	13 1		7,741,803.00 2,838,331.00	65 3	9,916,251.00 427,276.00
Totals	23	\$:	11,692,948.00	86	\$14,554,878.00

It is again significant that there has been a large expenditure for extensions to water supply and sewage treatment facilities for existing systems, a total of \$4,211,351.00 being spent in 1956 and in 1955 the sum was \$4,100,500.00. Included in this

amount for 1956 were the new water treatment plants at Athabasca, Fairview and Claresholm, and chlorination facilities at Cardston. The main construction of sewage treatment plants were at Edmonton and Calgary, where additional treatment is necessary to control pollution of the North Saskatchewan and Bow Rivers respectively.

Inspection of water and sewer systems was carried out as time permitted, and it is hoped to increase this work in 1957.

IV. Stream Sanitation

The initial surveys of the main Alberta river systems was completed in 1955. The work in this field is, therefore, mainly periodic checks of water quality in these rivers and the assessment of the improvement after waste treatment works have been placed in operation, and of the probable effect of a new industry proposing to locate in the province.

Subsequent to the completion of the initial studies of the Oldman and South Saskatchewan Rivers, instruction for improved sewage treatment were forwarded to Lethbridge, Fort Macleod and McGrath.

At Calgary sections of the new primary treatment plant were placed in operation, thus reducing to some extent the pollution of the Bow River.

The quality of water in the North Saskatchewan River deteriorated during the winter months due to the presence of an excess of wastes, chiefly from the City of Edmonton. The dissolved oxygen content was reduced to nearly zero and taste and odors in the water resulted. These odors were first noted in January, 1956, and an installation to force air into the water was set up about 40 miles downstream from Edmonton. This work was carried out in conjunction with the City of Edmonton and included 3,000 cfm. of air to be injected. However, absorption of oxygen was limited and little reduction in odors was achieved. The primary section of the main sewage treatment plant was put into operation at the first of December, 1956, thus reducing the pollution load in the river. The secondary section of the plant is being constructed and will be in operation for the winter season of 1957-58.

In addition to the above, the conditions in the Athabasca River were observed to provide data as to water quality prior to the operation of the pulp mill at Hinton. This will go into production in early 1957. Also, studies were made of the wastes from vegetable canning processes in Southern Alberta.

CIVIL SERVICE NURSE

K. E. JORGENSEN, R.N.

The year of 1956 has brought another increase in the number of Civil Servants attended to by this Division.

The emergency rooms in the various buildings are called upon occasionally and always when a request is made. These rooms are supervised by one of the staff—generally one with some training in either home nursing, St. John Ambulance or in medicine. This person is one willing to take care of the minor cases and phone this office to look after the more serious ones, and whose Department sanctions consent.

In the larger buildings, where there are no emergency rooms available, such as Land Titles and Highways Buildings, it is more difficult to attend to a sick or injured person. However, we do manage by using filing cabinets or washrooms for a little privacy.

We have noticed a definite increase in the number of conditions affecting the nervous system, also respiratory and skin conditions due to allergies.

Several haemoglobin counts are taken, as well as tuberculosis patch tests and eye tests.

The following statistical report indicates the work of this Division for the years of 1955 and 1956:

1955	1956
Office Calls4,920	5,310
Home Calls458	498
Transportation home, to	
hospitals or Doctors'	
offices	106
Illness Certificates	521
Ambulance Cases	2

DIVISION OF ARTHRITIS SERVICES

R. K. THOMSON, M.D., Director

The Division of Arthritis, Department of Public Health, with Clinics in Alberta Jasper Building, Edmonton, and Holy Cross Hospital, Calgary, accepts patients up to the age of twenty-five years.

It is now apparent from the statistics over the last few years that the Clinics are seeing in the neighbourhood of fifty new patients per year, and are treating approximately 200 repeat patients each year. It is notable that the majority of patients who have become ineligible by virtue of having reached the age of twenty-five, have reached a stage of stability in treatment which obviates the need for long hospitalization. They have become established in a routine which is helpful to them and they continue under their private physician.

There has been a further reduction in total hospitalization and this further strengthens the impression of former years that early and active care of the Rheumatoid Arthritic youngster reduces the over-all cost to society by diminishing the need for hospitalization and particularly long-term hospitalization care.

Since the newer hormone preparations have been introduced, there has been a great increase in their use in general practice. When the program of the Provincial Government buying these drugs in bulk lots was first introduced, it was recognized that there would be an actual saving over the retail sale price, but it was felt that there might be a marked increase in the use of these preparations. Such a situation has not developed, and it is felt that the distribution of these hormones through the Clinics has permitted a better control and consultation with regards to their use; again resulting in an over-all saving.

A statistical compilation of cases treated in 1956 is attached hereto.

ed Herero.			
STATISTICAL COMPILATION OF	CASES	TREATED,	1956
	Edmonto	n Calgary	Total
Initial Examinations made		17	50
Repeat Examinations made	. 165	34	199
Rheumatoid Arthritis Cases			
in 1956 (new)	. 25	9	34
Total Rheumatoid Arthritis Cases			
under the Division of Arthritis	99	32	131
Hospital Days	. 396	0	396
Physiotherapy Treatments	. 137	134	271
Injections	. 25	54	79
Office Visits	. 6	38	44
Total Treatment Days, January 1st to		er 31st 1956	
Hospital Days	20001110	396	•
Clinic and Office Visits		292	
Physiotherapy			
- Light of the py			

TOTAL TREATMENT DAYS ______1,043

84

Other, including surgical injections and special procedures

DIVISION OF CEREBRAL PALSY CLINICS

F. G. DAY, M.D., Director

The year 1956 marks the fifth consecutive year of operation of Cerebral Palsy services in Alberta. This service, started by the Government from a comparatively small beginning, has developed into a comprehensive one of considerable magnitude, wherein two out-patient Clinics are in continuous operation, one in Edmonton and the second in Calgary. Both Clinics are complete units, providing all the modalities of treatment recognized as being required for the complete therapy in this disease. Diagnostic Clinics are held at weekly intervals and continue to gather new cases and revise treatments in the older patients. Emphasis has continued to be placed on public education and education of those in the field of medicine on the diagnosis and treatment of cerebral palsy. Perhaps, one of the largest services rendered is assistance in the home treatment and assistance in future planning of the large number of cases who do not fall in the category of treatable cases at the Clinics.

This year has seen the opening of Calgary's new clinic, a spacious building with all of the necessary facilities for modern therapy. We have instituted a system of recording improvement in each of the modalities for every child under treatment, which lets us know at a glance what degree of benefit is being received by the individual, and, at what rate. This, coupled with a better use of our Guidance Clinics, is quickly narrowing the number of cases felt to be treatable, and, hence, saving our facilities for only those children who are deriving satisfactory benefit. Also, in 1956, we inaugurated a system of photographing the individual children and, hence, by progressive films on the same child any change can be much more readily appreciated.

In the field of research, the Edmonton Cerebral Palsy Clinic performed a very extensive survey in the field of cerebral palsy. The results would appear to have been accepted as authoritative by the profession. A paper entitled, "Supracondylar Osteotomies", for "Flexor Contractures" was compiled at the Edmonton Cerebral Palsy Clinic and presented to the American Academy of Cerebral Palsy in Chicago.

The Provincial Department of Health has, in 1956, inaugurated a program to assist parents in the domiciliary care of their children who are victims of cerebral palsy and where their care at the Clinic necessitates their residence in either Edmonton or Calgary. This will, in the future, help us to treat more patients from the country points throughout the Province.

A brief report showing statistical accomplishments and elaborating on the Clinic functions for the year follows:

CALGARY CLINIC

The Calgary Clinic continued to operate under the Direction of Dr. T. A. Richardson, with a weekly Diagnostic and Examination Clinic on Thursday mornings, and a daily in-patient Clinic. In July, there was a change in the Supervisory Staff after three years' continuous service by the previous Supervisor. During the latter part of October, the Clinic moved to its new building on the Provincial Grounds in the northwest part of the city.

During the year, 44 Examining Clinics were held, when there were 212 examinations made. Of these, 36 were new patients with 34 being cerebral palsy and 2 cases pending further investigation. Three Clinics were held for the administration of Salk Polio Vaccine to 15 children.

Patients On Active Treatment

There were 80 cerebral palsied cases that benefitted from treatments on a rotating basis of varying lengths of time from 3-12 months. Of these, 30 were new cases and 50 were readmissions. The average monthly number of cases who received treatment or instructions throughout the year was 35.7, with daily average attendance of 18.5.

Physiotherapy

3,451 physiotherapy treatments were given to 68 different children. Of these, 22 were quadriplegics, 9 were paraplegics and 37 were hemiplegics. The average monthly number of cases benefitting throughout the year was 30.

Progress

1. Quadriplegics—

19 in full control braces

4 achieved sitting balance

1 achieved standing balance 1 achieved walking in bars

4 achieved walking without support

9 showed little or no improvement

Of 4 not braced, 3 showed minor improvement, 1 achieved walking without support.

2. Paraplegics-

4 in full control braces

1 walking without support

1 walking with crutches

1 walking with canes

1 minor improvement in gait

Of 5 not braced, 4 achieved standing balance and walking without support, and 1 improved gait.

3. Hemiplegics-

Most have shown minor improvement in gait There is a Hydrotherapy Pool in our new Clinic, but, due to the short length of time it was in operation, there is not much to report for 1956.

Total number who received Physiotherapy	68
Number who showed considerable improvement	22
Number who showed average improvement	23
Number who showed little improvement	14
Number who showed no improvement	9

Occupational Therapy

This department is still functioning with the services of an Acting Occupational Therapist. During the 12-month period, there were 3,252 treatments given to 60 different children. The monthly average number of cases being instructed was 28.

Total number who received Occupational Therapy	60
Number who showed considerable improvement	13
Number who showed average improvement	24
Number who showed little improvement	14
Number who showed no improvement	9

Speech Therapy

The services in this department were for a 12-month period, although there was a change in Therapists on March 1st. In July, the present Therapist attended a Workshop in California. This proved to be of great benefit to the Clinic as a whole.

There was a total of 2,809 treatments given to 54 different children, with a monthly average of 23.5 cases benefitting. Of the 12 who showed considerable improvement, 9 were spastics, 2 were athetoid, and 1 was found to be deaf and was recommended for admission to the Edmonton School for the Deaf. No further Speech Therapy was required for 9 of these 12 children.

Of the 19 children who showed average improvement, 10 were spastics, 3 were athetoid, 5 ataxics and 1 deaf child, who was recommended to the School for the Deaf.

Of the 14 children who showed little improvement, 12 were spastics, 1 was athetoid, and 1 was ataxic. These children were severely handicapped either physically or mentally.

The 9 children who showed no improvement were handicapped both physically and mentally. One had a short soft palate and was recommended for a "push back" operation.

Total number who received Speech Therapy	54
Number who showed considerable improvement	12
Number who showed average improvement	19
Number who showed little improvement	14
Number who showed no improvement	9

School

The Calgary School Board continued to provide a school teacher for 10 months of the year. During this period, 31 different children received instruction in classes ranging from Grades 1 to 6, with Grade 1 forming the largest group. During this period, the average number of cases seen monthly was 16.7.

Total					nooling		OI
	Number	in	Grade	1		22	
	Number	in	Grade	2		5	
					***************************************	1	
	Number	in	Grade	4		1	
	Number	in	Grade	5		1	
	Number	in	Grade	6		1	

Patients on Home Management

Total number	103
Referred to Red Deer Training School	6
Referred to School for the Deaf	4
Surgery	5
Deceased	3

Braces

	40
Bilateral long leg	10 4
Bilateral short leg	1
Unilateral long leg	7
Unilateral short leg	11
Cutter type night splint	19
Perlstein type night splint	1
Dennis-Browne type night splint	3
Wrist splint	9
Hand splint	2 2
Back brace	42
Brace repairs and adjustments	55
Shoe corrections	55

Instruction

Student Nurses from Holy Cross Hospital Student Nurses from Red Cross Hospital	30 86
Students from School for Nurses' Aides	20
Medical Health Offices and Nurses from a Health Unit	13
High School Students Physiotherapy Internes	2 2

Talk to Parent Group by Medical Director.

Panel Discussion by entire staff for Parent Group.

Film, "A Day in the Life of a Cerebral Palsied Child",

shown 16 times.

Movie Camera

In December, an 8 mm. movie camera and projector were donated to the Clinic by the Southern Alberta Cerebral Palsy Association. This should be of great benefit in recording progress and in guiding us in the treatment of these children.

EDMONTON CLINIC

During 1956, 49 Clinics were held, with a total of 439 examinations. There were 49 new cases seen, with 38 diagnosed as cerebral palsied, 3 pending further investigation, and 8 miscellaneous.

Patients on Active Treatment

There were 93 cerebral palsied cases that benefitted from treatments on a rotating basis. Of these, 30 were new cases and 21 were children who were excused from the regular school, opportunity classrooms, or attended after school hours. The average monthly number of cases who received treatments or instructions throughout the year was 39.5. Daily attendance averaged 22.7.

Physiotherapist

The total number of treatments given during the year has been 2,758, with 73 different cases being seen. The average monthly number of cases benefitting throughout the year was 22.4.

Progress

6 commenced standing
7 commenced beginning to
learn to walk
1 commenced using crutches
6 commenced using canes
1 commenced walking alone
5 showed minor improvement
1 trial period only
2 showed no improvement
11 were braced for the
first time

Out-Patient — Baby Clinic

Four babies seen with parent in attendance to prepare child for future in-patient treatment. All but one made satisfactory progress.

Occupational Therapist

The Occupational Therapist has seen 62 different cases and given 1,653 treatments. Average number of cases benefitting from monthly treatments was 17.

Three wore hand braces, one learned wheel-chair activities, 8 worked at feeding skills. The majority worked to master self-care activities.

Being trained in both Physiotherapy and Occupational Therapy, she was able to carry on with limited number of cases during the time we were without a Physiotherapist.

Speech Therapist

A total number of 54 cases were treated during 1956, with a total of 2,063 treatments. Average number of cases benefitting monthly throughout the year was 20. Satisfactory progress was noted in the majority of cases, but 17 showed little or no progress whatsoever. Of these, 7 were referred on to other centres and a further 7 were too grossly handicapped either mentally or physically to benefit from treatment. Four hearing aids were fitted, and one child gained admittance to the School for the Deaf.

Respirator therapy was carried out in 9 cases, and more light was thrown on this type of therapy subsequent to the Speech Therapist's 14-day workshop course at the Orthopedic Hospital in Los Angeles, California.

School

Pupils attending the Cerebral Palsy Clinic's Special Class for various lengths of time during 1956 may be classified into school and pre-school groups.

Thirteen older children, who are progressing in academic subjects at the Elementary Program in day schools, attended during the summer holidays or once a week during the school year, receiving pertinent remedial instruction for their special problems.

Fourteen attended a reading readiness program before enrolling in Grade I in day classes, four not successfully, although they benefitted from the experience of associating with non-handicapped children. Most important in this category are twelve severely involved cerebral palsy patients in Grades 1 and 2, six of whom have progressed to being taught by a Roving Teacher, five have continued to attend the Special Class, and one is on a home-study program.

Twenty-five pre-school pupils attended intermittently, usually in three-month periods, which is sufficient to ensure readiness to attend day school. Eight of these have shown good

ability, twelve have responded very well and require further special education. The remaining five definitely are lacking in mental ability.

The day school and pre-school groups total 64 pupils, with 2,804 instructions, average benefitting monthly is 24.

There has been markedly excellent co-operation with principals and room teachers regarding youngsters' problems and reports to the Director.

Patients on Home Management

Of the following, 88 have been seen as out-patients.	12
Surgery	58
Supervised for orthopedic corrections	
Discharged as no longer requiring supervision	
m a 1 t tt - Cab - I for the Doof	- 3
Referred to the School for the Bear Referred to the Winifred School for the Retarded	2
Referred to the Winifred School for the Retarded	4
Too severely handicapped, benefit is nil	4
100 Severely Handicapped, benefit is in	8
Referred to Provincial Training School at Red Deer	
Too young for full program	12
Moved out of the Province	

Braces

Bilateral long leg brace with lengthened hip locks Unilateral long leg brace knee locks Unilateral long leg night brace Unilateral long leg night brace Unilateral below-knee night brace Bilateral long leg night brace Bilateral below-knee night brace Below-knee brace Below-knee brace Shoe adjustments	7 10 2 1 6 2 6 6 18 75 10 5 3 7 2 2 1
Twisters	1 1 2 1

INSTRUCTIONS TO-

10 Student nurses from Misericordia Hospital
26 Public Health Nursing students from University of Alberta
27 Registered nurse from T.B. Association
28 Nurses from the Stony Plain Health Unit
29 Physical Education students from University of Alberta
20 Nurses from the Alberta Association R.N.'s from Stony Plain
20 Nurses from Well Baby Clinic
21 Student Nurses from Royal Alexandra Hospital
22 Staff members from Provincial Training School at Red Deer
23 Occupational Internes
24 Physiotherapy Internes
25 Group Junior League members

LECTURES AND FILM "A DAY IN THE LIFE OF A CEREBRAL PALSIED CHILD"

10 Student Nurses from the Archer Memorial Hospital 30 Teachers from University Summer School Session 6 Groups Student Nurses Royal Alexandra Hospital 2 Groups Student Nurses Misericordia Hospital 36 Public Health Nursing Students at University of Alberta

Auxiliary Services Reception Centre

During the year, 2,339 lunches were served in the Centre. The housekeeper was assisted by volunteers from various Women's Clubs and individuals. This service was being provided through the combined efforts of the South Side Kiwanis Club and the Edmonton Cerebral Palsy Association.

Kindergarten

Kindergarten was held four afternoons a week during six months of the year, with an average attendance per month of 13. It served as a pool for the staff to draw from, and provided socialization for those cases who were waiting time in Clinic. This area is the only space large enough for group activities such as games, dancing, and the rhythm band.

STATISTICAL SU	MMARY		
	Edmonton	Calgary	Total
Patients on Active Therapy	93	80	173
Patients on Home Management	103	88	191
New Patients	30	30	60
Re-Admissions	63	50	113
Cases receiving Physiotherapy	73	68	141
Physiotherapy treatments	2,758	3,451	6,209
Cases receiving Occupational Therapy	62	60	122
Occupational Therapy treatments	1,653	3,252	4,905
Cases receiving Speech Therapy	54	54	108
Speech Therapy Instructions	2,063	2,809	4,872
Number of Clinics	49	44	93
Total Examinations	439	212	651
For Diagnosis	49	36	85
For Pavious	200	176	ECC

Acknowledgments

The loyal co-operation of all members of staffs in both the Calgary and the Edmonton Cerebral Palsy Clinics is hereby acknowledged.

DIVISION OF TUBERCULOSIS CONTROL

G. R. DAVISON, M.D., Director

This is the thirty-eighth annual report of the Division of Tuberculosis Control and represents the summation of the accomplishments of control measures—hearkening back to the days when a patient waited months for a sanatorium bed to the present when admission is almost immediate. This does not mean that the problem has been solved and that we can turn our interests to more glamorous things. During the year, five hundred cases of active disease were discovered, consisting of four hundred and ten pulmonary cases and ninety non-pulmonary. Some twenty-one less cases than in 1955. Besides these, there were six hundred and thirty-one cases who were considered inactive. This latter group will be re-examined from time to time in an endeavour to keep them well.

With our provincial population of 1,123,000, the five hundred active cases means one new active case for every 2,240 of the population. It must be remembered that for every case discovered there are many more harbouring the disease. Many will become ill and require long treatment. Others, in variable health, will carry on, unwittingly infecting their families, friends and fellow workers. Others, aware of their condition, will persist in exposing their associates to the disease.

There is, however, a bright side to this gloomy picture—the mortality rate. It is expected that, when the official figures are available, the death rate will be the lowest ever recorded in Alberta. From present information, it will be in the neighborhood of four deaths per 100,000. This figure includes deaths of people of Indian Status.

Diagnostic Services

All diagnostic procedures required are provided under the Alberta Tuberculosis Act. Clinics are held regularly at the Sanatoria in Edmonton and Calgary twice weekly and at definite intervals in several of the larger centres throughout the province.

The tuberculin skin testing of students and the families of the positive reactors is continuing with gratifying results. This program is carried on in co-operation with the Health Units, District Nurses and City Medical Officers of Health. One active case was found for every 2,980 persons tested.

Mobile X-ray surveys are continuing to play an important part in the campaign. These clinics are held, in the main, in the areas where the incidence of infection and disease is comparatively high. One active case in 1,335 films was discovered.

The X-raying of the chests of General Hospital admissions is of major importance in discovering lung disease. It deserves the active support of all practising physicians and hospital administrators. Films taken under this project are sent to the Tuberculosis Division for interpretation, except from the large hospitals where radiologists are attached to the staff. 21,606 admission films were interpreted by the Tuberculosis Division—one active case in every 7,202 films.

Treatment Services

The Aberhart Memorial Sanatorium in Edmonton and the Baker Memorial Sanatorium in Calgary provide complete treatment services. The anti-microbial drugs are continuing to prove of great value, even beyond the hopes of most workers in Tuberculosis. They must be prescribed with care, consequently it is our policy to admit all patients to a Sanatorium before instituting any treatment regime.

The bed situation is not as acute during the past few years and it is rarely that patients cannot be admitted promptly. There is a short waiting list at the Aberhart Sanatorium because the incidence of disease is higher in the north of the province. 1,184 cases were given Sanatorium care during 1956. Of these there were 375 admissions to the Aberhart and 318 to the Baker. The average length of in-patient treatment was 286.9 days. Of the 696 discharged patients 46% continued on drugs as outpatients. It is still the policy of this Division to treat cases in Sanatoria until their disease is considered well stabilized. During the year there were 149 re-admissions. It is lamentable that some patients cannot content themselves to persist in Sanatorium care. Seventy-five left hospital against medical advice. Many of these are recalcitrants who will not listen to reason and the danger to which they are exposing their families does not deter them.

Medical and Nursing Training

The Aberhart Memorial Sanatorium is associated with the University Medical faculty. Lectures and clinics are given the third-year medical students by Sanatorium physicians during the University term. Third-year medical students are taken on the Sanatoria staffs at Calgary and Edmonton during the summer vacation. It is felt that the courses are well worthwhile, considering the amount of time allotted in the curriculum. The Sanatoria are accredited for post-graduate training.

The Nursing Training Schools of the province are affiliated with the Sanatoria for short courses for nurses in their second and third years. These classes are under the supervision of an instructor with the medical and nursing staffs participating in the teaching. The students not only learn something of the nursing of infectious disease but also receive some groundwork in Tuberculosis. They also have the opportunity to know the patient as a human being as well as a case.

Patient Education and Rehabilitation

Instruction in all school grades is given by well-qualified teaching staff. The curriculum of the Department of Education

is followed so that children are able to keep up with their classes and on discharge return to their respective schools with their same age groups.

Very active occupational therapy departments are also operated. This training is looked upon as educational rather than diversional and the patient's aptitude is judged along with scholastic attainment when rehabilitation is being considered.

Acknowledgments

A very heartfelt vote of thanks is extended to the Medical Superintendents and staff of the Sanatoria for a job well done during nineteen hundred and fifty-six.

The statistical summary which follows sets forth the accomplishments of the Diagnostic Services of the Division and Treatment Services of the Baker Memorial Sanatorium in Calgary and the Aberhart Memorial Sanatorium in Edmonton.

1.	STATIONARY	CLINICS

1.	STATIONALL CHINICS	Number Sessions		Cases of Active Non-Pul.	Total Examin- ations
	Baker Memorial Sanatorium	100	29	6	5,636
	Aberhart Memorial Sanatorium	103	62	10	5,411
	Calgary	50	2		223
	Camrose	6	1	1	173
	Drumheller	11	$\bar{2}$		308
	Lethbridge	12	4	61	748
	Medicine Hat	12	6		530
	Red Deer	6	1		365
	Vegreville	6			163
		*			
	TOTAL	306	107	17	13,557
		*			
	OTHER CLINICS				
	Miscellaneous		221	7	5,980
	Total all Clinics		328	24	19.537

In addition to the above 352 newly discovered cases of active tuberculosis there was also discovered 292 cases of inactive tuberculosis.

Tuberculin Testing and X-ray Surveys (Conducted by Public Health Nurses, Teachers, Business Firms, etc.)

	Number Tuberculin Tested	Number X-rayed
Nursing Aide Trainees	UM 3 - 11	485
Red Cross Blood Transfusion Service		36
Industry and Business	68	347
Edmonton School Board	1 y	257
Food Handlers		16
Good Samaritan Hospital, Edmonton	144	75
University Students, Edmonton and Calgary	680	504
Provincial Laboratory, Edmonton		125
Rosebud Colony, Beiseker	44	44
School Surveys (See breakdown next page)	32,780	2,003
TOTAL	33,720	3,892

Total number known to have been given service 34,914 i.e. number x-rayed plus number tuberculin tested but not x-rayed.

Films sent in from various points and paid for by the Tuberculosis Division.

Number out-patient Streptomycin injections (Aberhart Memorial Sanatorium and Baker Memorial Sanatorium)—2,538.

2b.—SCHOOL SKIN TESTING SURVEY 1955 - 1956

							Ca	ew ses
	Students Tested	Students Positive	Students X-Rayed	Contacts Tested	Contacts Positive	Contacts X-Rayed	Active	Inactive
Alder Flats Alberta East Central Athabasca Bueberry Mountain Breton Breton Breynat Bow Valley Booth Memorial Home, Calgary City of Calgary Drumheller Edmonton Foothills H. U. Grande Prairie Jasper Place Kinuso Leduc Strathcona H. U. Mallaig Medicine Hat H. U. Milk River Macleod Pincher Creek Minburn Vermilion H. U. Mountain View H. U. Peace River Red Deer Slave Lake Stony Plain-Lac Ste. Anne Sturgeon Sunnynook Vegreville Wetoka H. U. Warner Youngstown School of Agriculture, Fairview School of Agriculture, Vermilion Canadian Union College, Lacombe	214 106 125 514 64 319 4.674 215 1,419 697 1,816 697 1,816 697 2,789 87 221 1,219 1,	13 52 48 1 1 4 200 2	8 48(10) 29(7) 2(1) 1 3 13(1) 52(52) 37(37) 149(67) 30(10) 21(7) 1 (1) 79(2) 51 45(19) 1(1) 6(6) 16(5) 33(7) 65(7) 27(27) 3 51(51) 87 7 11(1) 5(5) 11 1) 5(5) 11 1) 5(5) 11 1) 5(5)	31 77 74 45 11 10 70 13 31 154 42 8 348 219 208 	111 43 34 43 34 47 7 6 6 64 59 64 120 122 3 3 2 2	5 38(5) 38(5) 33(7) 1 11 16(16) 61(61) 138(113) 24(7) 4(1) 9(3) 4(1) 9(3) (22) 64(3) 78 83(10) 3(3) 9(2) 25(5) 44(6) 19(19) 3(2) 109(169) 56(1) 3 110(7) 11(9) 1(1) 3 2(1)	3 2	11 11 11 11 11 11 11 11 11 11 11 11 11
TOTAL	30,435	970	879 (337)	2,346	804	1,023(453)	11	20

Figures in brackets indicate number of persons x-rayed under this program whose Tuberculin Test results have not yet been reported to the Division.

3.—MOBILE UNIT SURVEYS

	umber Rayed		Number X-Raved
		Mallaig Manyberries Medicine Hat Medicine Hat Nitro Chemical Plant Midlandvale Nacmine Newcastle Owl River Ralston Redeliff Rich Lake Rolling Hills Rossedale	X-Rayed 666 498 15,120 338 360 627 149 787 1,760 191 538
Garth Glendon Grand Centre Heinsburg Hussar Hygrade Mine Iron River Irvine Kikino La Corey Lac La Biche Lindberg	81 1,015 679 204 589 75 307 939 106 171 1,247 330	R.C.A.F.—Cold Lake Rosemary Schuler Seven Persons Spedden Sputlnow St. Lina St. Paul Therien Tilley Tulliby Lake Vilna	910 921 1,003 332 412 190 446 2,470 352 636 123

INDUSTRIAL SURVEY, EDMONTON

Alberta College British American Oil Building Products Ltd. Burns and Co. Ltd. Canadian Industries Ltd. Canada Packers Ltd. J.I. Case Co. Compensation Building Dominion Motors Co. Ltd. T. Eaton Co. Ltd. Gainers Ltd. Gareat West Garment	733 165 120 481 158 730 327 1,212 186 901 351 527	Hudson's Bay Co. Ltd. Johnstone Walker Ltd. McDermid Studio Northwest Industries Northwestern - Toni Lynn Royal George Hotel Standard Iron Works Texaco Oil Co. Weston Bakers and Western Grocers Ltd. Woodward Stores Ltd.	555 312 303 1,403 140 65 332 161 509 922
Healy Motors	158	TOTAL	62,772

SUMMARY MOBILE UNIT SURVEYS

Number X-rayed Probable Tuberculosis active Probable Tuberculosis inactive Further examination requested Non-Tuberculous chest condition Pleurisy active Pleurisy inactive No disease	36 444 768 712 1 372	(397 previously discovered)
---	--	-----------------------------

4.—SUMMARY CLINICS AND SURVEYS

Total Numb	er Examinations
Stationary Clinics	13,557 5,980
Surveys (excluding Mobile Unit)	34,914 62,772
Inlians, non-Indians (work done by Department of Indian and Northern Health Services) Hospital Admission Program	
TOTAL	149,306

5.—SOURCES OF DISCOVERY NEW CASES OF TUBERCULOSIS (Excluding Indians)

	1955	%	1956	%
Clinics	737	66.2	644	58.8
Referred for admission, family doctor	219	19.7	212	19.3
Surveys	11	.9	7	.7
Affairs or National Defence	10	.9	- 16	1.5
Provincial and Hospital Laboratories	9	.8	23	2.1
Hospital Admission Films	106	9.5	139	12.7
Other sources Department of Indian and Northern Affairs (includes 38 Treaty	21	1.9	10	.9
Indians)			44 1,095	4.0

SOURCE OF REFERRALS (Including 38 Indians)

Family Doctory	386 111
Hospital Admissions	151
Contacts Department of National Health and Welfare School Surveys	127 70 28
Department of Indian and Northern Affairs Surveys (Business, Hospitals, etc.)	101
Department of National Defence and Veterans Affairs	25 21 6
Other Sources X-San. other Provinces or Countries	12 88
TOTAL	1 133

(OO XIIAIAND XIIOIAAN)		
Minimal		457
Moderately Advanced		155
Far Advanced		92
Primary		113
Tuberculous pleurisy with effusion and evidence of		
previous pleurisy		205
Non-Pulmonary tuberculosis		111
	_	
TOTAL		1,133
Number newly discovered cases active tuberculosis	500	
	633	
Number cases reactivated	50	
Number non residents diagnosed tuberculous	68	(includes 50
Number of known contacts of newly discovered cases of		immigrants)
tuberculosis	567	
Number of known contacts checked	917	74.7%

OLD TUBERCULIN 1956

Number of B	ottles Sent
BMS	AMS
Dilution No. 2	******
Dilution No. 3	102 9
952	111
In addition to the above Patch Tests were sent to Health Units, Mur Nurses and Family Doctors upon request. B.C.G. VACCINATIONS 1956 (Tuberculosis Division)	nicipal
1. Nurses— (a) Graduates	4
(b) Students	409
(c) Other Nursing Personnel	7
2. Other hospital personnel	23
3. Medical Students	
(a) newborn contacts	11
(b) adults and children, contacts	18 12
TOTAL	484

INSTITUTIONAL REPORT

	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium
Patients under treatment January 1, 1956	318 3 549 325 4 329	263 375 4 642 371 3 374 268
Number of patients under treatment first of year Number of admissions during the year Total number patients treated during the year		491 693 ,184

INSTITUTION REPORT (Continued)

DIAGNOSIS OF PATIENT ADMISSIONS

DIAGNOSIS OF FAITEN	1 ADMIDDIOINO	
Ва	aker Memorial Sanatorium	Aberhart Memorial Sanatorium
		25
Non-tuberculous	2	
For diagnosis	. 62	20
Pleural effusion	. 15	13
Primary Tuberculosis	38	40
Tuberculosis inactive	. 22	7
	-	
Non-pulmonary tuberculosis—	11	13
Bone		16
Genito-urinary		14
Adenitis	. 8	
Addison's disease	. 2	1
Enteritis	. 1	****
Pelvic		8
Meningitis		9
Peritonitis		4
Taenosynovitis		1
		$\bar{2}$
Dermatitis		ĩ
Erythema Nodoseum		1
Chest wall abscess with sinus	1	****
Abscess Plombage space	1	****
Lupus Vulgaris		1
Pulmonary tuberculosis active—		
Minimal	28	46
Moderately advanced		71
Far advanced		78
Miliary		5
Silico-tuberculosis		· ·
Sinco-tuberculosis	••	****
mom + T	318	375
TOTAL	919	313
	0.0	00
Number with positive sputum on admission	86	92
Number negative on admission	232	250
Number negative on admission, positive later		33
Number of readmissions during the year	54	85
Number both admitted and readmitted during 1956.		16
Number of patient days		97.761
Number patient days in other provinces under	01,021	011102
		2,436
reciprocal agreement		2,430
Number of patients January 1, 1956,		
other provinces		8
Number of admissions in other provinces,		
reciprocal agreement		8
Total number of patient days including those		
in other provinces under reciprocity		184,818
Number of institutional patient days provided for		
non-residents under reciprocity		3.747
Non-residents under reciprocity	,	0,141
Number of patients at beginning of the year,		10
non-residents under reciprocity		12
Number of admissions, non-residents under		
reciprocity		12
Left against advice	20	57

OPERATING ROOM REPORT

OFERATING ROOM	A RELOID		
	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
Thoracoplasty—			
Number of stages	22	5	27
Number of first stages		5	23
Number of revisions			****
Number of cases		5	24
Aspiration of chest	93	21	114
Bronchogram	. 33	32	65
Bronchoscopy		28	90
Casts		50	67
Cystoscopy and pyologram		9	30
Implantation D.O.C.A. Pellets		8	12
Lobectomy		8	23
Lobectomy and decortocation	1	3	4
Nephrectomy	8	3	11
Pneumonectomy	. 8 . 2	4	-6
Segmental resection	6	17	23
Thoracotomy			4
Thoracoplasty and lucite pack	6		6
Orthapaedic operations	. 28	15	43
Miscellaneous examinations and procedures		38	348
- mooning of the management of the procedures			
TOTAL	. 629	241	870

SUMMARY PNEUMOTHORAX CASES

	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Outside Points	Total
Under treatment January 1, 1956	4 5	24	5	33
Number of new cases during 1956	5	1	0	6
Number cases under treatment on admission	0	0	0	0
	9	25	5	39
Number cases discontinued	6	18	5	29
Number under treatment December 31, 1956	3	7	0	10
Number cases transferred out of Alberta Number transferred to other sections of	0	0	0	0
the Division	0	0	0	0
	6	18	5	29
Unsuccessfully attempted	0	0	0	0
Resident	71	30	0	101
Out-patient	35	370	14	419
	106	400	14	520
				_

Patients are receiving pneumothorax refills at the following outside points: Bonnyville, Elk Point, Westlock.

SUMMARY PNEUMOPERITONEUM CASES

Under treatment January 1, 1956	25 5	43 15	12	80
Number cases under treatment on admission	2	2	3	7
	32	60	15	107
Number cases discontinued	22	23	7	52
Number of cases transferred out of Alberta Number transferred to other sections of	0	0	0	0
the Division	1	5	1	7
	23	28	8	59
Number under treatment December 31, 1956	9	32	7	48
Resident	432	535	_0	967
Out-patient	445	672	174	1,291
	877	1,207	174	2,258

Patients are receiving pneumoperitoneum refills at the following outside points:

Athabasca High Prairie Mannville Stettler
Beaverlodge Lamont Medicine Hat Westlock
Fort Vermilion Lethbridge St Paul

NUMBER DISCHARGED ON DRUGS 1956

	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
Isoniazid and Para-amino Salicylic Acid	130 10	113 25	243 35
Streptomycin and Para-amino Salicytic Acid Isoniazid, Streptomycin and Para-amino Salicylic Acid	5	20 3	243
Isoniazid and Viomycin Streptomycin	1 1	1	2
TOTAL	158	162	320

Fluoroscopic
examinations
Films received for
interpretation
Basal Metabolism Rate
Cardiograph
Audiogram

661

535

696

937

12,477

1,357

1,472

2,829

		LABORAT	ORY RE	PORT			
SPUTUM EXAMINATION Positive	IS:			773	570		1,343 5,686
Negative				,362	2,324		7,029
TOTAL			4	,135	2,894		
URINE EXAMINATIONS			9	,280	2,662		11,942
Sadimentation Rates			2	,941 ,821 161	3,700 2,845 1,123	5	8,641 5,666 1,284
TOTAL				,923	7,668	3	15,591
MISCELLANEOUS:				23	12		35 213
Spinal Fluid Gastric Analysis Culture Guinea Pig Inoculati Other	on		1	3 1 1,728 165 2,024	210 764 640 709	3 4)	9 2,492 805 2,733
TOTAL				3,944	2,34	3	6,287
WASSERMAN REPORT:				_		7	7
Positive				312	33		647
TOTAL		***************************************		312	34	_	654
Basal Metabolism Rate Cardiograph					9		22 95
			L REPOF	TS			
Number of patients (ind Number of treatments Number of prophylactic Number of fillings Number of extractions Number of new dentures	treatmen	ts		347 46 30 173 230 35	61 71 1 43 23 2	2 4 5 8	962 758 44 608 468 62
		AY DEPAR		REPORT			
	B: Me:	aker morial atorium	Abe Mer	erhart norial itorium	Т	otal	Grand Total
	In Pts.			Out Pts.	In Pts.	Out Pts	
RADIOGRAPHS MADE: Chest—Full Size Miniature	1,652 319	917 5,366	1,792 1	455 7,642	3,444 320	1,372 13,008	4,816 13,328
Ribs	26	1 18	2 66	2 47	92 92	3 65	5 157
Extremities	170 4	141	60 5	51 _5	230	192 11	422 20
Dorsal	80 96	65 90	36 23	54 27	116 119	119 117	235 236
Skull Sinuses	8	1	8 2	$\frac{1}{2}$	16 2	2 2	18 4
F.P. Abdomen G.B. Series	17	3	16 1	3	33 1	3	36 4
G.I. Series	12		1		13		13
Barium Enema	5 43	1 3	1 40	14	6 83	17	7 100
Intravenous Pyelogram Retrograde Pyelogram	43 15	3	7	1	22	1	23 26
Sinogram	4 31	*****	19 50	3 7	23 81	3 7	26 88
Bronchogram Ordographs	74	13	108	14	182	27	209
Dental	93		126		219 7		219
EsophagusShoulder	7 7	12			7	12	19
Jaw	1	2			1	2	1 17
Sacroiliac Mastoid	15 2		******		15 2		2
Sternum	i	ĭ				1	1
Cystogram Coccyx	1 2	*****			1 2		2
Pregnancy	ĩ				ĩ		1
Clavicle		1				1	1
TOTAL	2,685	6,641	2,364	8,328	5,049	14,969	20,018

CLASSIFICATION OF DISCHARGED PATIENTS

			Resid			On dis-	charge	
		On ad- mission	31 days or less	Over 31 days	In.	AI	AU	D.
2. Prin 3. Rei	diagnosisnary Tuberculosisnfection type pulmonary erculosis clinical		77 7	27 60	3 31	4 32	3	1
Min Mod Far Mili	imal lerately advanced advanced ary	74 22	12 7 1	58 67 21 1	24 29 10 1	37 40 8	8 3 	1 2 4
tub Min Mod	nfection type pulmonary erculosis positive: denately advanced advanced	91	 1 4	11 90 105	3 29 29	8 57 62	 2 2	3 16
5. Tut 6. Nor	iary perculosis pleurisy n-pulmonary Tuberculosis:	5 23	1	23	2 6	2 17		1
Ade Ad	cess enitis dison's Disease	24	1 2 3	3 23 2 25	1 4 2 10	2 18 2 17	"i	1
Der Ent	matitis tercolitis ythema Nodosum	1	1	1	1	1		
Lu	nito-urinary pus Vulgaris ningitis	6	4	36 1 6 4	13 3	25 1 1 4		2 2
Total	vicationitisactive tuberculosistreated	. 6 . 592	1 45	5 547 574	1 199 174	5 340 339	19 11	33 27
	untreated		122		28 202	5 344	8 1 9	10 37

EXPLANATION OF ABBREVIATIONS AND TERMS USED

The standard classification is that of the National Tuberculosis Association. Minimal, Moderately Advanced and Far Advanced refer to anatomical extent of disease.

ln.	 	Ins	active
AI.	 Activ	e Imp	roved
AU.	 Active	Unimp	roved
D	 		Died

N.B. Only those in residence over 31 days are classed as "treated".

N.B. 1 patient admitted as a tuberculosis case was found to be non-tuberculous which accounts for the apparent discrepancy in the above table.

CLASSIFICATION ON ADMISSION OF 696 DISCHARGED PATIENTS

	Baker Memorial Sanatorium	Aberhart Memorial Sanatorium	Total
For diagnosis	68	36	104
Primary tuberculosis	68 25	42	67
Pulmonary tuberculosis	176	207	383
Tuberculous pleurisy	9	14	23
Non-pulmonary tuberculosis	47	72	119
TOTAL	325	371	696

CLASSIFICATION ON DISCHARGE OF TREATED CASES OF ACTIVE TUBERCULOSIS AND TUBERCULOUS PLEURISY

0	n admission Number	Improved	On Discharge Unimproved	Died
Minimal	69	66	2	1
Moderately advanced	157	148	4	5
Far advanced		108	2	16
Primary		60	****	
Miliary	-	4	1	
Non-pulmonary tuberculosis		101	2	4
Tuberculous pleurisy		23	****	****
TOTAL	547	510	11	26

RESIDENCE OF DISCHARGED PATIENTS

1,25,521,02 01 03	Baker Memorial Sanatorium	Memorial Aberhart Sanatorium	Total
Cities Towns Villages	170 29	146 50 34	316 79 39
Enlarged Municipal Districts		39 94	90 144
Enlarged Municipal Districts Local Improvement Districts Special Areas Board	50 3		3
Non-resident Miscellaneous	. 11	6	17 4
Counties	. 2	2	4
TOTAL	325	371	696
SEX OF DISCHARGED PATIENTS:	. 192	197	389
Male Female		174	307
TOTAL	325	371	696
AGE ON ADMISSION:		00	00
From 1 - 9	. 24 . 8	66 26	90 34
From 15 - 19	. 20	36 81	56 139
From 20 - 29 From 30 - 39	. 75	55	130
From 40 - 49		36 35	85 69
From 60 - 69	. 37	22 14	59 34
From 70 and over			
TOTAL		371	696
SOCIAL STATUS OF DISCHARGED PATIEN			
Single Married		184 170	301 353
Divorced	. 6	2	8 34
Widowed		15	
TOTAL	. 325	371	696
RESIDENCE IN ALBERTA:	Dolron	Aberhart	
	Baker Memorial Sanatorium	Memorial Sanatorium	Total
Unknown		1 229	1 359
Born in Alberta 1 year or less	. 17	9	26
1 - 5 years	. 34	22 19	56 41
10 - 14 years	. 13	7	20 13
15 - 19 years 20 - 29 years	. 27	34	61
30 or more years	. 76	43	119
TOTAL	. 325	371	696
LENGTH OF STAY IN SANATOR	IUM OF DISCHAR	RGED PATIENTS	
DEATHS:		10	10
Number in Sanatorium 31 days or less Number of patient days		10 132	$\frac{10}{132}$
Average patient days		13.2 11	13.2 27
Average patient days Number in Sanatorium over 31 days Number of patient days Average number of patient days	. 14,231	5,078	19,309
	. 889.4	461.6	752.2
DISCHARGES: Number in Sanatorium 31 days or less	. 78	35	113
Number of patient days	. 630	903	1,533
Average number of patient days Number in Sanatorium over 31 days	. 231	25.7 315	13.6 546
Number of patient days Average number of patient days	92 931	85,820	178,751
iotal number deaths and discharges	. 325	272.4 371	327.4 696
Total number patient days Average number patient days	10,792	91,933 250.5	199,725 286.9
Number non-pulmonary admissions	49	78	127
Number non-pulmonary patient days Average number patient days,		19,520	28,401
non-pulmonary	26.8	27.3	27.1

DIVISION OF MENTAL HEALTH

R. R. MACLEAN, M.D., Director

Aministration and Prevention:

Throughout the year, the Director has endeavoured to keep in perspective the broad fields of prevention and treatment. Matters of policy were referred to the Department of Public Health for consideration and decisions. Detailed integration of the preventive and treatment services was carried out by the Director in close collaboration and harmony with the Guidance Clinic and Hospital personnel.

Guidance Clinics:

The full-time Clinics in EDMONTON, CALGARY and LETHBRIDGE, carried capacity case loads during the year. Their treatment programs were active and favourable results were reported. The RED DEER and PONOKA Clinics, staffed by the Training School and Provincial Mental Hospital, increased their case loads. The latter Clinics have improved their treatment and follow-up procedures.

In all, some 50 to 60 points in the Province have been provided with Clinic service. This service in the outlying points has been chiefly diagnostic.

The appointment of a Psychiatrist to the Lethbridge Clinic has materially improved the service in the south of the Province.

The over-all number of emotionally disturbed children under Guidance Clinic treatment at any particular time appears to be in the vicinity of from 25 to 30 children.

All Clinic staffs have participated in many public education activities in the field of Mental Health. Included in the latter activities are panel discussions, workshops, institutes, lectures, talks, radio and television appearances. The Clinics have assisted where possible, with follow-up work in connection with discharged Mental Hospital cases. The Clinics have also cooperated closely with the Cerebral Palsy and certain other Clinics, examining and evaluating their cases and offering advice and certain recommendations.

Separate reports for the various Clinics follow:

PROVINCIAL GUIDANCE CLINICS

PROVINCIAL GUIDANCE CLINICS, NORTHERN ZONE

The year 1956 established a record for the greatest number of new cases examined in the Northern Zone.

New cases examined numbered 1046, which was 90 more than were seen in 1955. In addition 285 cases were re-registered, 35 less than in 1955. The net increase in case load was 55. However, the work load increased 484 periods to 7286, indicating the more intensive work being done with patients and their relatives. Because of geographical considerations most of the Treatment cases come from the area of Greater Edmonton.

Age and Sex Distribution—The ratio of male to female new cases was 1.43:1. 77.04% of all new cases were under 20 years of age. This is a drop of 14% and is due to the number of adults seen for consultation at the request of the Disability Pension Review Board.

Classification of Types of New Cases—There has been an increase in the number of severely disturbed children under the age of 20. There has been an increase in the number of Mental Defectives of all age groups to 26.9% of the total case load. This increase was largest in the age group over 20 years of age.

Educational activity—continues at a high level to community organizations, Home and School groups, as well as to students in the Schools of Nursing and Medicine. 157 periods were given to this function of the Clinic.

City of Edmonton—575 new cases were examined and 200 re-registered during the year. The work load was 5,438, a slight increase over 1955, although there was a decrease of 80 cases in the total case load from the city of Edmonton.

Barrhead-Westlock—A third point has been added to this area, i.e. Thorhild, at which Clinics are held in rotation with the other two points for the same number of Clinic days given to Barrhead and Westlock in previous years. 38 new cases and 6 re-registered cases were examined with a total work load of 151.

Camrose and Killam—There were two Clinics held at each centre. 35 new cases and 2 re-registered cases were examined for a work load of 119.

Wainwright-Holden—No Clinics were held in Holden during 1956. However 3 cases were examined in Edmonton from this area. In Wainwright 24 new cases were examined for a case load of 71. There were 2 Clinics cancelled because of inclement weather.

Wetaskiwin—31 new cases and 5 re-registered cases were examined for a work load of 100.

Athabasca and Lac La Biche—One Clinic was held at Athabasca and two at Lac La Biche. 25 new and 4 re-registered cases were examined for a work load of 104.

Bonnyville, St. Paul and Two Hills—One Clinic was held at Bonnyville and two at St. Paul and Two Hills. 42 new and 6 reregistered cases were examined for a work load of 163.

Vegreville-Vermilion—70 new and 15 re-registered cases were examined for a work load of 306. This is a record case load for this area.

Peace River and Grande Prairie—Two trips of two weeks' duration were made into these areas. 130 new cases and 30 reregistered cases were examined for a work load of 579.

PONOKA DISTRICT GUIDANCE CLINIC

During 1956 Clinics in the Ponoka district were serviced by a Psychiatrist, Psychologist and Social Worker of the Provincial Mental Hospital staff. This group conducts Clinics periodically at Ponoka, Rimbey, Stettler, Castor and Consort. 42 new and 10 re-registered cases were seen, with a total work load of 167. This is an increase over 1955. The majority of cases were referred through the combined efforts of the Schools and Health Units, but a number were seen at the request of private physicians.

Ponoka-Rimbey—No formal Clinics were held at Ponoka during the year, but a number of cases were referred privately for examination and advice. There was one Clinic held at Rimbey. 17 new and 2 re-registered cases were seen, with a work load of 59.

Stettler-Castor-Consort—Five Clinics were held at Stettler, Castor and Consort. 25 new and 8 re-registered cases were seen, with a work load of 108.

RED DEER GUIDANCE CLINIC

There has been an increase of work carried out this year at the Provincial Guidance Clinic at Red Deer over last year's.

In addition to the actual work carried out during clinic interviews the clinic staff was available for several consultations at the Red Deer Municipal Hospital and also carried out therapy both with Coma and Sub-coma Insulin, as well as Electro Convulsant therapy.

There were 98 new patients examined at the Clinic this year. This number is identical with the number of new patients seen last year; however, the total interviews were well over 100 in excess of last year. The preponderance of cases show a ratio of slightly more than half children over adults.

Play therapy is coming into greater vogue at the Clinic in Red Deer and many children are showing marked benefit as a result of this treatment.

Interviews

The number of interviews carried out during 1956 are as follows:

Psychiatrist	260
Psychologist	224
Social Worker	39
School Medical Officer	36

In addition to the above interviews 71 psychometric examinations were done.

Extra Clinic Facilities

The Guidance Clinic staff has been available, as during previous years, to address Home and School Associations, Women's Institutes, Service Clubs, et al. There was a total of 12 talks given.

PROVINCIAL GUIDANCE CLINICS, SOUTHERN ZONE

Early in 1956 the Southern Zone of the Provincial Guidance Clinics was divided into two separate zones; the Calgary Zone covering the area from Olds to Nanton, and the Lethbridge Zone which includes the area south of Nanton. Although these two zones are separate administrative units it has still been necessary for the psychologists from the Calgary Clinic to make monthly trips to Lethbridge and Medicine Hat as there is not a psychologist on staff at the Lethbridge Clinic. The Calgary Zone functioned throughout 1956 without a full-time psychiatrist. Psychiatric services were available one-half day each week in the Calgary Office. There have been relatively few staff changes.

250 new cases (144 male and 106 female) were examined in 1956. 190 cases were re-registered. The number of new cases being examined increased markedly towards the end of 1956 and it is expected that this trend will continue in 1957. The total work load was 2991.

Of the new cases 76% were children and adolescents under the age of nineteen with the majority of these being in the age range from five to nine years. 29.2% of the new cases were referred to the Clinic either by relatives or by the client himself; 22.4% were referrals from physicians in private practice; 16% were referred through the Schools and the remainder were from other sources. 58 mental defectives were examined during the year.

Only one Clinic was held outside Calgary during 1956. Clients from the area surrounding Calgary are usually seen in Calgary although they may be registered in their home area.

Calgary—242 new cases were examined and 182 were reregistered. The total work load for Calgary was 2974 periods. 30.2% of the new cases were self-referrals; 22.7% were from medical practitioners.

Brooks—A one-day Clinic was held at Brooks in January. Six new cases were seen. Three cases were re-registered. The total work load was 17.

Didsbury—No Clinics were held at Didsbury. Two cases were re-registered for that area.

Drumheller—One case was re-registered in Drumheller although no trips were made to that centre.

High River—Two new cases were registered and two were re-registered from High River. There were no requests for Clinics to be held in the High River area.

LETHBRIDGE GUIDANCE CLINIC

On February 8th, 1956, a psychiatrist was appointed to the staff of the Lethbridge Clinic thus opening a new era in the Clinic services to the southern part of the Province.

During the year, 142 new cases were registered while 50 cases were re-registered. Interviews in the Clinic by the psychiatrist numbered 614, by the social worker 430, and by the psychologist from the Calgary Clinic 143.

Medicine Hat—38 new cases were registered and 24 cases were re-registered. Interviews by the psychiatrist numbered 89, by the social worker 73 and by the Calgary psychologist 70.

In addition to the Clinic case work proper, a considerable amount of attention was afforded to public education. Talks were given to groups of physicians, nurses, teachers, clergy and the general public. Clinic contacts and activities were resumed in many areas where the service had been suspended awaiting the development of the Lethbridge Clinic resources.

NEW AND RE-REGISTERED CASES EXAMINED, TREATMENT PERIODS, INTERVIEWS, PSYCHOLOGICAL EXAMINATIONS, AND TOTAL WORK LOAD OF CLINICS TABLE SUMMARY OF

STATEMENT ATTAC	Z	NEW CASES		RE-REGI	RE-REGISTERED CASES	SES	Д	DISTRIBUTION OF	N OF WORK		TOTAL
CLINIC DISTRICTS	M	[zi	E	M	Ē.	T	Pat.	Col.	Gen.	P.E.	LOAD
Edmonton and District Calgary and District Lethbridge and District Ponoka and Red Deer District	616 144 113 67	430 106 67 73	1,046 250 180 140	164 111 34 29	121 79 40 26	285 190 74 55	2,273 1,064 511 421	2,696 1,242 609 269	1,165 399 137 19	1,152 286 164 100	7,286 2,991 1,421 809
TOTALS	940	929	1,616	338	266	604	4,269	4,816	1,720	1,702	12,507

Total new cases examined since the Clinics opened in 1929 is now 19,328. Notes:

Cochrane, High River and Strathmore.

Edmonton and District includes all the area served from Wetaskiwin north. It includes Clinics held in the Peace River - Grande Prairie area, and such points as Ababasca, Barrhead, Bonnyville, Holden, Lac La Biche, St. Paul, Two Hills, Vegreville, Vermilion, Wainwright, Westlock and Wetaskiwin. Calgary and District includes the area served south of Didsbury, excluding the Lethbridge area. It includes Clinics held at such points as Didsbury, Drumheller,

Claresholm, Cardston Lethbridge and District includes the area in the far south of the province, with Clinics held at such points as Medicine Hat, Fort Macleod, and the Crow's Nest Pass.

Ponoka and Red Deer District includes the area from Didsbury on the south to Wetaskiwin on the north. It includes Clinics at such points as Castor, Ponoka, Deer, Rimbey, Rocky Mountain House and Stettler.

Re-registered cases are those that have been examined previously at a Clinic, and are seen again for further consultation and or treatment.

Col.—Collateral, or contacts with a patient's parents, or relatives, or others closely interested. Pat, -- Patient contacts including treatment periods.

It includes as well talks and Gen.—General contacts regarding Clinic activities and work, including those with other Agencies and Community Services, and teaching periods by staff members.

addresses,

Total Work Load-This is the sum of the periods of work noted under each of the four headings:-Patient, Collateral, General, and Psychological examinations. P.E.-Psychological examinations and tests.

TABLE 2
AGE AND SEX CLASSIFICATION OF NEW CLINIC CASES

TAGES	F T	29.6.7 29.6.7 20.6.9 20.6.4 20.6.4 20.6.7 20	100.0 100.0
PERCENTAGES	M F	24.9 24.9 25.22 20.22 20.21 20.23 20.2	100.0
	L	1135 623 141 244 544 533 362 363 364 364 364 364 364 364 364 364 364	1,616
FOTALS	[z ₁	202 138 127 227 23 23 23 24 12 12 12 13	929
Ä	M	223 8428 113 113 114 115	940
RED	Т	01461	140
PONOKA and RED DEER DISTRICT	ľz,	H88988844888	7.3
PONO	M	K K & C & C & C & C & C & C & C & C & C	29
GE	T	200 × 11 × 00 × 00 × 00 × 00 × 00 × 00 ×	180
LETHBRIDGE ND DISTRICT	Ŀ	0800004F20114 <u>0</u>	19
LET	M	9444 9784 9784 9784	113
Y	T	2448 6448 601 6448 601 601 601 601 601 601 601 601 601 601	250
CALGARY D DISTR	ſΞı	0.8.1.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	106
AND	M	0303112688	144
ON	T	262 263 146 146 125 127 101 101 101	1,046
EDMONTON ND DISTRIC	F	27. 146. 146. 146. 177. 177. 188. 177. 179. 189. 177. 189. 177. 189. 189. 179. 179. 179. 179. 179. 179. 179. 17	6 430
EL	M	25.27 17.87 18.08	919
AGE GROUP		0 - 4 10 10 10 10 10 10 10	TOTALS

M-Male F-Female T-Totals

DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES-PRE-SCHOOL GROUP (0 to 5 years 11 months TABLE 3a

Waterwa of Cara	Edm	Edmonton and District	pu	Calg	Calgary and District		Lethb	Lethbridge and District	pı	Ponoka	Ponoka and Red Deer District	t t		Fotals	
ivature of case	M	[II	T	M	[zi	L	M	F	F	M	E4	E4	M	<u>-</u>	F
Educational Problem with Adequate Intellect Intellectual Inadequacy Thentional Disorder Speech Disorder Speech Disorder Speech Disorder Speech Disorder Speech Disorder Stauty Redeling Habits Sleep Disturbances Sexual Difficulties Attack Disorders Psychoneuroses	примономоопомин	00000000000000000000000000000000000000	UN 40 40 10000000000	HH4H4000H00004	<u> </u>	4 W W U W W W W W W W W W W W W W W W W	посооносносимо	немососососом	10000000000	пнососооно	оонооооооноо	4001110000000111	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	811000000000000000000000000000000000000	828 84 82 84 84 84 84 84 84 84 84 84 84 84 84 84
TOTALS	83	52	134	- 82	13	41	12		20	13	6	22	135	83	217

M-Male F-Female T-Totals

| 4H6H8H40F660H88 | 8 |

Nature of Case	Edm	Edmonton and District	pu	Calg	Calgary and District		Leth	Lethbridge and District	pu	Ponoka	a and Red r District	Red		Totals	
	M	দ	E E	M	F	T	M	দ	T	M	[II	T	M	H	T
Educational Problem with Adequate Intellect Intellectual Inadequacy Emotional Disorder Thinking Disorder Speech Disorder Fauty Feeding Habits Sleep Disturbances Anti-Social Trends Sexual Difficulties Psychoser Psychoser Non-Psychotic Norre-Psychotic Undiagnosed	27 111 111 111 111 111 111 111 111 111 1	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	23.7 1.75.7 1.75.7 1.75.0 2.0 2.0 2.0 2.0 1.0 1.0 1.0 1.0	#122 81200401118800020	<u>24.84.00008090008</u>	2888 5888 5888 5888 5888 5888 5888 5888	ропооппоопо	10000000000000000000000000000000000000	20000000000000000000000000000000000000	HH000000000H	000000000000000000000000000000000000000	100 100 100 100 100 100 100 100 100 100	1104 1161 1161 1161 1161 1161 1161 1161	22111999547 100119997777	284 256 256 256 276 277 277 277 277 277 277 277 277 27
TOTALS	486	297	783	06	59	149	69	88	76	42	32	74	289	416	1103

F.—Female

DIAGNOSTIC CLASSIFICATION OF NEW CLINIC CASES-ADULT GROUP (19 years and over) TABLE 3c

Nature of Case	Edm	Edmonton and District	pu	Calg	Calgary and District		Lethb	Lethbridge and District	p	Ponoka	and Red District	ed		Totals	
1	M	[H	T	M	ĮT.	T	M	Ē	T.	M	[z _i	H	M	E4	H
Educational Problem with Adequate Intellect Intellectual Inadequacy Emotional Disorder Thinking Disorder Speech Disorder Speech Disorder Anti-Social Trends Sexual Difficulties Attack Disorders Psychoneuroses Psychose Non-Psychotic Normal	0F0 00 00 00 00 00 00 F4 H0	484110000000000	404400000000000000000000000000000000000	000000000000	700000000000000000000000000000000000000	HH 10000000111188004	000000000000000000000000000000000000000	0011000001mmrw04	088H0008HH84400	010400001001000	044000000004400	01004000H0L1040H	000480008080HR	22,500 000 000 000 000 000 000 000 000 000	31 138 199 199 199 199 199 199 199 199 199 19
TOTALS Table 3B Table 3A	486	81 297 52	129 783 134	288	34	149	32 69 12	288	202	12 42 13	322	44 74 22	118 687 135	178 416 82	296 1103 217
GRAND TOTALS	919	430	1046	144	106	250	113	29	180	1.9	73	140	940	929	1616

F-Female T-Totals

M-Male

SOURCES REFERRING NEW CASES TO THE CLINICS TABLE 4

Reference Source	Edr	Edmonton and District	and	Cal	Calgary and District	T)	Lethl	Lethbridge and District	pu	Ponok	Ponoka and Red Deer District	ed		Totals	
	M	Ē	T	M	দ	F	M	ľu,	E	M	压	L	M	Eri	H
Schools and School Authorities	306	157	463	22	181	40	34	7	41	-08	00	-86	382	190	579
Private Doctors and Medical Clinics Medical Clinics, as Rehabilitation Corehral	831	48	129	36	20	26	36	31	29	19	32	21	172	131	303
Falsy, T.B., O.P.D. Health Units, Medical Health Officers, Public	18	00	26	m	m	9	4	10	0	П	7	- m	26	18	44
Health Nurses Child Welfare Agencies. Provincial	99	38	104	16	13	29	14	13	27	Ħ	11	22	107	75	182
and Municipal	17	29	46	14	2	21	4	4	00	63	0	ಣ	38	40	78
Branch, Bowden Institution Provincial Gaols Adult Counts	19	38	202	00	R	200	FI	0	H	0	H	7	20	39	59
Parents, Relatives, Friends, and Self	75	20	145	44	23	73	14	0 9	12	00 IO	100	15	130	115	245
Department of Public Health Other Sources	15	24	336	_ _	வம	14	00	HO	10	00	01	ОН	15	307	24.8
TOTALS	616	430	1046	144	106	250	113	29	180	67	73	140	940	929	1616
									-	_	_	_			

Notes: Provincial and Municipal Welfare Agencies will include Provincial and Civic Welfare or Children's Aid Departments, and Voluntary or Private Welfare Agencies, such as those supported by a Community Chest, Service Clubs, and protective Homes.

T.B.—Tuberculosis O.P.D.—Outpatient Department of a Hospital

T-Totals F-Female T.B.—Tuberculosis
M—Male F—Fem

TABLE 5
MAJOR RECOMMENDATIONS MADE IN REGARD TO NEW CLINIC CASES

	Edm	Edmonton and District	pu	ບັ	Calgary and District	pu	Leth	Lethbridge and District	pu	Ponoka Deer	Ponoka and Red Deer District	t		Totals	
Kecommendations	M	Ŀ	E	M	[zi	T	M	F	T	M	Ŀ	T	M	Į.	H
Admission to: (a) Mental Hospital (b) Provincial Training School	21	27	42	- 25	1	80 00	129	00 N	17	20	ю _Н	10 m	18	19	37
Placement in: (a) Protective or Correctional Home or Institution (b) Foster Home	2	19	26	00	-00	00	ОН	00	ОП	08	00	000	9	19	26
Educational Advice: (a) Modified School Program or Special Class Placement (b) Vocational Counselling (c) Other Modified Home Management Treatment in Guidance Clinic Other recommendations	233 33 116 115 32 107 45	988 33,33 60 888 888 93,53 94 95 95 95 95 95 95 95 95 95 95 95 95 95	321 63 26 188 67 195 105	7 7 7 11 149 16 17 17 17 17	20112331133	10 10 22 28 28 28 28 28 48 48	27.78 11.88 12.88 11.88 12.88 1	104 00 188 188 188 188 188 188 188 188 188	8122 8323 455 855 855 855 855 855 855 855 855 855	188113	111 112 22 2	22 3 3 29 8 29 77	261 42 38 209 56 156 105	100 35 30 127 61 156 100	361 77 68 336 117 117 312 205
TOTALS	919	430	1046	144	106	6 250	0 113	29	180	29	73	140	940	676	1616

T-Totals

F-Female

M-Male

SUMMARY OF THE NUMBER OF MENTAL DEFECTIVES EXAMINED, BY YEARS TABLE 6

	evilative sla	Cui	1867	2001	2205	2455	2651	2998	3250	3542	3817	4152	4523	4928
	centage w Cases	Per Ne		40.6%	41.9%	21.9%	13.2%	21.4%	20.0%	22.7%	18.1%	22.2%	23.6%	25.0%
		L	1946	134	204	250	196	347	252	292	275	335	371	405
	Totals	F	to									152		
		M	S Examined									183		
	wn, iency	H	Defectives									25		
	I.Q. Unknown, Mental Deficiency Indicated	[zi	of Mental I									12		
	I.Q. 1 Mental Inc	M	Number of	6	19	24	6	CI	ಣ	4	19	13	8	27
	to 75 Morons	H	UnN	83										
		Ŗ		43										
	I.Q. 51 Probably	M		40								• •		
	to 50 Imbeciles	T		29									,	
	. 26 to bly Imb	댼		13										
	I.Q. 26 Probably	M	_	16										
	o 25 Idiots	H		4										
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	ear			1946	941	340	240	000	100	700	500	466 470	CCC	000
1	X			119	7 7	א ה	7	n C	150	7 7	Ta	150	7 -	ET

Notes: I.Q.—Intelligence Quotient

M—Male F—Female T—T

ACTIVE TREATMENT MENTAL HOSPITALS

The Provincial Mental Hospital, PONOKA

The Provincial Mental Institute, EDMONTON

(Detailed Reports Follow)

The Provincial Mental Hospital, PONOKA, has acted in the capacity of the receiving Hospital for active treatment cases since its opening in 1911. The Provincial Mental Institute, EDMONTON, was opened in 1923, and served originally as an outlet for the transfer of chronic mentally ill patients. In recent years—especially during the last five years—it has been receiving active cases. During 1956 a modern Reception Building was opened and the Institute became a full-fledged active treatment Hospital.

For purposes of the proper distribution of the cases requiring admission for active treatment of mental diseases, the Province was divided on a population basis. The Provincial Mental Institute, EDMONTON, now admits patients north of a transverse Provincial line, roughly passing through Wainwright and Wetaskiwin. The Provincial Mental Hospital, PONOKA, admits cases from south of this line.

It will be noted from the statistics, that the Provincial Mental Hospital, PONOKA, admitted (including re-admissions) some 651 cases, whereas the Provincial Mental Institute, ED-MONTON, admitted (including re-admissions) some 774 cases. The Provincial Mental Institute, EDMONTON, admitted over 100 court cases on remand during the year. This would seem to account for the difference between the actual admission rates for the year. During the previous year (1955), the Provincial Mental Hospital, PONOKA, admitted (including re-admissions) some 58 more cases than the Provincial Mental Institute, EDMONTON. It is too early to determine whether the trend on a basis of 1956 figures for the Provincial Mental Institute to admit more cases per year than the Provincial Mental Hospital will continue, or whether the practice of the Provincial Mental Institute to admit more Remand cases than the Provincial Mental Hospital, constitutes the real reason for the difference in admission rates.

DISCHARGE RATES:

During the year the Provincial Mental Hospital, PONOKA, discharged 518 cases, as compared with 651 admissions. The Provincial Mental Institute, EDMONTON, discharged 583 cases, as compared with 774 admissions (including Remands). The discharge rates, including all categories of patients, was very high. The complexity of the situation as created by the high admission rate of seniles and remand cases, and certain adult defectives, makes it difficult to evaluate percentage discharge rates accurately or in a meaningful manner at present.

A review of the first admissions and discharges in the active treatment diagnostic categories shows these results: The number

of first admissions to the Provincial Mental Hospital, PONOKA, in these categories was 311. The number of discharges in the year in the same categories was 425. The number of first admissions to the Provincial Mental Institute, EDMONTON, in the said categories was 391, the number of discharges in the same categories was 364. These figures would indicate that there is a trend towards a balance in the movement of first admissions and discharges in the so-called acute treatment diagnostic categories.

The two Hospitals under discussion have carried on very active treatment programs, using all modern procedures. Both Hospitals report definitely, but conservatively, that the tranquilizing drugs have been proving valuable and have been producing favourable results. These, in conjunction with other procedures such as electro shock, insulin, occupational and recreational therapy, combined with psychotherapy by experienced physicians, nurses and ancillary staff members, have been instrumental in reducing the incidence of seclusion of patients, restlessness and destructiveness.

The Staff training programs in both active treatment Hospitals continues. In addition to the training of nursing staff members generally, both Hospitals are instructing affiliate students from the various General Hospitals in the Province.

TABILIATED SIMMARY—INSTITUTIONS—MOVEMENT OF POPILIATION

Institutions	Patien Decem	Patients in Hospital December 31st, 1955	spital 1955	A E E	Admissions (Excluding Transfers)	W 20 -	Di	Discharges		H	Deaths		Patient Decemb	Patients in Hospital December 31st, 1956	pital 1956
	M	দ	H	M	Ē4	L	M	ţ.	H	M	দ	T	M	দৈ	E
ACUTE MENTAL HOSPITALS P.M.H., Penoka P.M.L., Edmonton	961	624	1585	344	331	651	338	256	518	39	22	63	923	598	1521
Total	1969	1092	3061	787	638	1425	009	501	1101	88	46	135	1945	1088	3033
CHRONIC MENTAL HOSPITALS Rosehaven, Camrose P.A.M.H., Claresholm P.A.M.H., Raymond	245	170	415	113	210	203	1000	000	10	0 0 0 0 0	21.	38.8	285	220	505 96 134
Total	245	403	648	113	103	216	10	4	14	55	27	82	285	450	735
MENTAL DEFECTIVE SCHOOL P.T.S., Red Deer	388	310	869	40	22	62	32	25	57	4	H	10	392	306	869
Overall Total	2602	1805	4407	940	763	1703	652	530	1172	148	74	222	2622	1844	4466

include some 500 mental defectives, seniles and non-psychotics who do not require active treatment.

TABLE OF ADMISSIONS AND DISCHARGES AMONG ACTIVE TREATMENT CASES PROVINCIAL MENTAL HOSPITAL, PONOKA, AND PROVINCIAL MENTAL INSTITUTE, EDMONTON (These are the Active Treatment Mental Hospitals of Alberta)

-	als	P.M.I.	1896 1400
	Totals	P.M.H.	2595 2177
The same of the sa	1956	P.M.I.	523 395
	19	P.M.H.	521 425
	1955	P.M.I.	380
	19	P.M.H.	438
	1954	P.M.I.	344
	19	P.M.H.	531, 426
	1953	P.M.I.	356 219
	19	P.M.H.	532
-	1952	P.M.I.	293
		P.M.H.	524
	Admissions Discharges		

Percent of active treatment cases discharged--Approximately 80%.

ANNUAL REPORT, 1956

FIRST ADMISSIONS

1956

DIAGNOSTIC CLASSIFICATION	Male	Female	Total
	THE CO.	2 01110110	7
Syphilis with Psychosis	7	0	040
Schizophrenia (all Categories)	141	107	248
Manic Depressive (all Categories)	20	17	37
Involutional	8	25	33
Paranoia	15	11	26
Senium	23	25	48
Pre-Senile	2	4	6
Senile Psychosis	39	16	55
Psychosis with Cerebral Arteriosclerosis	39	23	62
Alcoholic Psychosis	27	4	31
Psychosis of Other Demonstrable Etiology	20	13	33
Other and Unspecified Psychoses	8	13	21
Anxiety Reaction	6 2 4	18	24
Hysterical Reaction	2	4	6
Obsessive Compulsive Reaction	4	0	4
Neurotic Depressive Reaction	25	31	56
Other and Unspecified Psychoneurotic Reactions	2	7	9
Pathological Personality (all Categories)		14	83
Alcoholism Without Psychosis		9	47
Mental Deficiency Without Psychosis	20	17	37
	5	4	9
Epilepsy	8	ŝ.	16
Primary Behaviour Disorders	8	1	7
Immature Personality	21	13	34
Mental Observation Without Need for Psychiatric Care	21	10	0.1
mom A I	552	387	939
TOTAL	332	301	939
		and the same of	

TABULATED SUMMARY OF DEATHS IN INSTITUTIONS DURING 1956

	P.	P.M.H., Ponoka		P.M.I., Oliver	.I.,		P.T Red	P.T.S., Red Deer		Ros	Rosehaven		Clan	Claresholm		Ray	Raymond	!	TO	TOTALS	
	M	F	H	M F	H	_	M	F	T	M	Ē	L	M	Ē	T.	M	ĮH.	T	M	Ŀ	E-
System	OK	0+	0 %	200	HO	ო ⊂	00	-00	00	-00	00	-00	00	-00		-00	-50	-00	CA 10		es 2
as	0 0	1 2	0 0	0 0) C) N	0 0	> <	> <	5-6	5 6	5-6	5	5-6	5 6	<u> </u>	5	5 6	5 - 6	H (١٥
	2 12	ЭH	9	210	N 60	OO C	o'0	00	00	0 4	200	9	00	50	50	00	50) C	2 4	2 17	200
19. Benign and Unspecified Neoplasms	П	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	
	4	m	2	-	-	-2	2	-0	2	cc	-	4							10	T.	T.
Chronic Rheumatic Heart Disease	Н	Н	7	0	0	10	0	0	0	H	0	' 	0	0	0	0	0	0	201	-	900
	00	0	00	H	10	9	0	0	0	11	3	14	0	2	2	0	0	0	20	10	30
	2	ಣ	10	6	9	15	10	H	H	0	0	0	0	0	0	0	П	-	H	H	22
Disease	o	0 -	HO	01	00	00	00	00	00	0 6	00	00	00	Q t	0,	0	0	0	H	000	H
Colitis) H	10	о н	0	20	0	10	00	10	200	0	070	00	70	10	50	70	ν̈́Ξ	200	070	0 -
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	7	9	00	Н	-	2	0	0	0	3	2	10	0	0	0	0	0	0	9	0.	15
	7	0	2	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	N	0	2
		-	-	-	-	-							-			-		-	- -	-	1
	20	21	Ľ	39	24	63	4	T	TC.	55	21	92	0	8	8	0	3	8	148	73	221

Provincial Mental Hospital, Ponoka

T. C. MICHIE, M.D., Medical Superintendent

Patient Population Changes

The resident population on January 1st, 1956 was 1,585, of whom 961 were male and 624 female. The number in residence on December 31st, 1956 was 1,521, of whom 923 were male and 598 female. This was an overall decrease of 64. The details are as set out in Table I.

Admission of Patients

Exclusive of transfers from other Provincial Mental Institutions, 651 patients were admitted. This was a decrease of 79 from the number admitted in the previous year. 344 of those admitted were male, and 307 female. A new policy established during the year limiting the geographical responsibility of this Hospital for admissions may have been a factor in the lower admission rate.

Admissions by Voluntary application numbered 176; by Medical Certificates 164; by Warrant 306; and 5 were admitted under "The Mental Defectives Act".

Thirty-four patients were admitted as transfers from other Mental Institutions in the Province. Some changes were noted in the mode of admissions which may be of significance. The number of Warrant cases dropped by 25 per cent, as compared with the previous year, while the number of Voluntary cases was increased, and the number of Certified cases was unchanged.

There were no significant alterations in the various diagnostic categories.

Separation of Patients

Five hundred and eighteen patients were discharged, of whom 262 were men, and 256 women. This was an actual decrease of 42 as compared with 1955, but the percentage discharged during the year was higher, as compared with admissions than in 1955. One hundred and forty-five patients were transferred to other Mental Institutions. Seventy-two patients died, this being a decrease of seven as compared with 1955. In 1956, there was a further extension in the policy of according patients trial leaves with their families. The extent to which this was effected can be judged from the fact that during the year more than 300 patients had leave which extended longer than 24 hours. Seventy-three patients were discharged from leave of absence.

Accidents and Elopements

Thirty-one patients suffered from fractures, 15 being men, and 16 women.

There were two suicidal deaths, both men.

A comparatively small number of patients left the Hospital without permission. It was interesting to note that no increase in the number of elopements occurred despite greater freedom allowed the patients.

General Health of Patients

The general health of the patients was maintained at a satisfactory standard. There were no epidemics.

Eleven patients, seven men and four women were transferred to the Tuberculosis Unit at the Provincial Mental Institute, Edmonton, during the year.

Clinical Work

There were some modifications in keeping with current trends in therapy. There was a marked decrease in the use of electroshock therapy. The tranquilizing drugs were utilized to a greater degree. They contributed greatly toward the improvement in the general behaviour and feeling of well-being among the patients on the continued treatment wards. The drugs also greatly alleviated the symptoms of the recently admitted and acutely ill patients. There was a low incidence of undesirable side effects from the use of tranquilizing drugs. Insulin-shock therapy was continued, as before. There is still a need for this form of therapy. There was a lessening use of hydrotherapy. There was an increasing utilization of group psychotherapy with benefit to a larger number of patients. Five units of the Hospital were operated as open wards, and approximately one-third of all patients in residence had ground privileges.

Occupational Therapy

There was no lessening in the emphasis of this form of treatment. The main studios were in continual use. A variety of facilities were maintained at other points in the Hospital. A small Occupational Therapy shop was established at Farm Dormitory Two, under the supervision of the Psychiatric Nurse in charge.

The Library gave excellent service to the patients. The Canteen had a successful year, with the proceeds being used to purchase a great many articles for patient use, such as television sets, furniture, garden and library equipment. A considerable sum was also spent on individual patients, and prizes for patient activities were also bought.

Recreational Therapy

This program was maintained at an active level and was beneficial to practically all patients in the Hospital. The activities were varied and in keeping with the needs of individuals or groups. The attendance at such functions ranged from a very few to a large number of patients, depending on the projects.

Religious Services

There was essentially no change in the religious services from the previous years. The Visiting Clergymen showed a great interest in the welfare and problems of the patients. They were encouraged to visit the Hospital as often as possible, and to interview individual patients.

Social Services — Social Worker and Psychologist

The position of Social Worker became vacant and was filled on February 15th, 1956, by a male Psychiatric Nurse with a special aptitude for the work. He gave very good service for the remainder of the year. He did considerable investigation regarding prospective patients, and a great deal of follow-up work. The Worker also assisted with the "After-Care" Group in Calgary, and held a great many interviews with patients and their relatives at the Hospital.

The Psychologist resigned in August, and the position was filled by a woman with a satisfactory background in Clinical Psychology. Her services have been satisfactory.

Dental Services

This department operated with efficiency and adequately met the needs of the patients. The Dentist also supplied services to the Auxiliary Hospitals at Claresholm and Raymond.

X-Ray Services

This department continued to operate satisfactorily under the direction of a Nurse-Technician. As in previous years, all chest plates were referred to the Medical Staff of the Baker Memorial Sanatorium for interpretation. From time to time, other films were sent to Specialists in Calgary and Edmonton for interpretation.

Laboratory Services

The Laboratory provided extensive facilities for diagnostic work. In exceptional circumstances, some specimens were submitted to the Provincial Laboratory, Edmonton. It has, however, been found expedient and quite satisfactory to utilize the services of the latter Laboratory for blood and spinal fluid serological examinations.

School of Nursing

There was no change in the Teaching program, except in minor details. There were four qualified Instructors on the Staff. They were assisted in Teaching by the professional personnel of the Hospital. The senior Instructor resigned on July 31st, 1956. She was replaced by the promotion of the Science Instructor. The position of the latter was filled by a properly qualified new appointee. The Instructor for Affiliate Nurses was granted one year's leave of absence from August 4th, 1956, to obtain instruction in advanced Psychiatric Nursing leading to a Degree. Her successor was an Instructor with a Diploma in Teaching and

Supervision, and a background in Psychiatric Nursing. The Clinical Instructor resigned on August 29th, 1956, and was replaced by a Graduate Nurse with a qualification in Psyciatric Nursing.

During the greater part of the year, 26 students received instruction in the four-year Course in General and Psychiatric Nursing. Twenty-one students taking the same Course were affiliating at various General Hospital Schools of Nursing, one of this group being a man. Eleven Nurses completed this Course, and were granted Diplomas in General and Psychiatric Nursing last May.

Twenty-three men received instruction in the three-year Course in Psychiatric Nursing. Eight men received Diplomas in May, on completion of the Course.

One hundred and seventeen Affiliate Student Nurses from: Archer Memorial Hospital, Lamont; Calgary General Hospital; Holy Cross Hospital, Calgary; Medicine Hat General Hospital; Lethbridge Municipal Hospital; St. Joseph's General Hospital, Vegreville; and St. Michael's Hospital, Lethbridge, received eight weeks' instruction in Psychiatric Nursing at this Hospital during the year. The number of students in attendance at any one time averaged twenty.

Seventeen Graduate Nurses completed the eight-month

course in Psychiatric Nursing and received Diplomas.

Eight Public Health Student Nurses from the University of Alberta came to this Hospital for field work, and spent a period of two weeks.

The Certified Nursing Aides who joined the Staff were given a total of fourteen hours' instruction in Psychiatric Nursing.

Ward Aides appointed to the Staff were given an orientation course of approximately thirty hours.

Visitors

The number of visits by relatives of the patients steadily increased. The improved means of transportation may have been partly responsible. As in previous years, every encouragement was given for such visits. Whenever possible, the visitors were interviewed by Hospital Physicians.

The Hospital was visited and inspected on a number of occasions during the year by the Hon. Dr. W. W. Cross, Minister of Health, and also by Dr. A. Somerville, Deputy Minister of Health.

Dr. Randall R. MacLean, Director of the Division of Mental Health, made frequent inspections of the Hospital facilities.

The Visiting Board made its annual survey of the Hospital, as in previous years. A careful inquiry was conducted into all services rendered to patients.

There were several other distinguished visitors during the year, including Dr. A. M. Gee, Director of Mental Health Serv-

ices, Province of British Columbia, and Dr. C. A. Roberts, Principal Medical Officer, Department of National Health and Welfare, Ottawa.

A number of organizations in the community took an active interest in a variety of patient activities.

The Eugenics Board

Five meetings were held at this Hospital by the Eugenics Board during the year. Thirteen male and 24 female patients, making a total of 37, were presented to the Board. This number included one patient who was re-presented, and one deferred, as the latter did not come within the jurisdiction of the Board. They were both female patients. Twenty-two male patients, and 24 female patients, or a total of 46, were sexually sterilized, at this Hospital.

Surgical Services

Surgical services were rendered by Consultants from Calgary and Edmonton. The aid of surgeons from the community was obtained in a number of instances.

All Electroencephalographic tracings were referred to an Edmonton Neurosurgeon for interpretation.

Housekeeping Department

Every effort was made to keep the wards attractive and to supply the basic necessities for the comfort of patients. This included the replacement of outmoded furniture with new, and in many instances more satisfactory equipment. The aim was to provide, wherever possible, facilities which would increase the patients' privacy and promote a feeling of well-being.

Maintenance Department

The general repair of buildings was carried out by this department. The roof on the male reception ward was reshingled. A major program of refinishing the stucco exteriors of the buildings was commenced. This added greatly to the appearance. This program will be continued with a view to completion during the coming year. A large amount of interior redecorating was done. The condition of buildings in general was satisfactory.

Fire Protection

The equipment was well maintained. Fire practices were held regularly throughout the year. Members of the Fire Brigade conducted inspection tours of the interior of all buildings, at stated times. Instructions were given to the Nursing Staff in fire procedures, and the use of fire extinguishing equipment so that emergency measures might be instituted at once, in case of necessity.

New Buildings and Equipment

"Jubilee Hall", a new residence for Male Staff, was completed and opened for occupancy in January, 1956. This proved to be a great improvement in housing accommodation for Male Staff. The rooms formerly occupied in the Hospital buildings by Male Staff have been converted for the use of patients.

A kitchen was constructed on Female Four Ward for patients' use, by the renovation of a single room.

The new cannery is still incomplete, and awaiting the installation of machinery.

The project of re-wiring the Hospital was essentially completed, except for a new fire alarm installation.

The incinerator has not as yet been available for use, being still under construction.

Business Office

This department functioned efficiently during the year. The collection of accounts was continued with satisfactory returns. The Business Manager supervised the Farm and various Ancillary services in a proper manner.

Provincial Mental Hospital Farm

The yield of farm produce was good. There were many improvements effected. A continuing difficulty was experienced in raising the milk production to a satisfactory level.

There was an ample supply of pork and poultry produced for the needs of the Hospital.

A new laying house was constructed at the Poultry Farm. Natural gas was piped to all the poultry buildings.

Ancillary Services

The various Hospital Departments, including the Laundry, Linen Room, Print Shop, Sewing Room, Shoe Shop and Tailor Shop provided adequate services.

The Department of Public Works

This Department, under the direction of the Chief Engineer, rendered excellent service to the Hospital. An adequate amount of light, heat and water was supplied. The sewage removal system operated satisfactorily. The policy established in recent years of buying electricity from an outside source was continued.

Conclusion

There were no radical changes in policy introduced during 1956. A gradual and planned evolution was continued at all times with a view to the welfare of the patient, and toward the promotion of his return to society as a productive person. Treatment methods were modified or changed in keeping with current

trends in psychiatric therapy. There was an emphasis on increased freedom for patients, with gratifying results, but without losing sight of the necessity of proper safeguard for the patient and the public.

In reviewing the record of this Hospital over the past twenty years, there is much to give gratification and to stimulate hope for the future. The educational program has given to the Hospital a highly-skilled Nursing Staff which it is felt would compare more than favourably with that of many similar institutions. It is interesting to note that at the beginning of that twenty-year period the discharge rate was approximately sixty per cent of admissions, and that over the intervening years, this rate has gradually increased to approximately eighty per cent in 1956. The crude figures, of course, tell only part of the story, but the last quoted figure is enhanced in interest, when it is realized that in recent years, the number of senile patients has gradually increased; furthermore, in 1956, sixty per cent of the patients who were discharged spent less than three months in Hospital.

Sincere appreciation is expressed to the senior officers of the Department of Public Health for the direction and encouragement given to the Hospital administration in its efforts to attain higher standards in treatment of the mentally ill.

DEPARTMENT OF PUBLIC HEALTH

PROVINCIAL MENTAL HOSPITAL PONOKA, ALBERTA

TABLE 1

MOVEMENT OF THE PATIENT	г РО	PUL	ATIOI	N DU	RINC	TH	E YE	AR :	1956
	M	F	Т	M	F	T	M	F	T
In residence as of December 31, 1955 On Leave or otherwise absent							961 17	624 20	1585 37
On the books as of December 31, 1955		*****					978	644	1622
ADMISSIONS: First Admissions: Voluntary Medical Certificates Warrant M.D. Act	35 55 146 3	52 67 53	87 122 199 3	239	172	411			
Re-admissions Voluntary Medical Certificates Warrant M.D. Act Transfers in	25 9 69 2	64 33 38	89 42 107 2 	105	135 13 13	240 34	365	320	685
SEPARATIONS: Discharges: As recovered As improved As unchanged As not psychotic Deaths Transfers out	70 95 35 62	48 148 29 31 	118 243 64 93	262 50 91	256 22 54	518 72 145	403	332	735
On books as of December 31, 1956 On Leave or otherwise absent In residence as of December 31, 1956							940 17 923	632 34 598	1572 51 1521

TABLE 2 PATIENT POPULATION BY PSYCHOSES—December 31st, 1956

CLA	SSIFICATION:			
300	Schizophrenia:			
		Male	Female	Total
	300.0 Simple	13	8	21
	300.1 Hebephrenic	16	17	33
	300.2 Catatonic		213	519
	300.3 Paranoid	141	65 2	206 6
	300.6 Schizo-affective	10	10	20
301	Manic Depressive reactions:	20	10	
201	301.0 Manic and circular	33	26	59
	301.1 Depressive	11	26	37
	301.2 Other types	1	6	7
302	Involutional Psychoses	2	16	18
303	Paranoid Conditions	64	41	105
304	Senile Psychoses	11	12	23
305	Presenile	3	4	7
306	With Cerebral Arteriorsclerosis	21	18	39
307	Alcoholic Psychoses		4	21
308	Psychoses of other demonstrable etiology:	Δ,	*	21
308	308.0 Brain tumor	4		4
	308.1 Epilepsy		13	32
	308.2 Infective and parasitic	1		1
	308.3 Allergic, metabolic, etc.	1	1	2
	308.4 Blood and circulatory systems		1	3
	308.5 Sense and nervous systems	9	5	14
	308.6 Drugs and other poisons		1 1	1 7
	308.7 Accidents and violence	6 1	1	í
200		7		_
309	Other and Unspecified Psychoses: 309.1 With Psychopathic Personality	5		5
	309.2 With Mental Deficiency	55	38	93
	309.3 Unspecified (Undiagnosed)		1	14
	Psychoneurotic Disorders:			
310	Anxiety		2	2
311	Hysterical Reaction	1	1	2
313	Obsessive-Compulsive reaction		1	1
314	Neurotic Depressive reaction	2	1	3
318	Others and Mixed Psychoneuroses	1	5	6
	Sub Totals	773	539	1312

CLASSIFICATION:

PROVINCIAL MENTAL HOSPITAL PONOKA, ALBERTA

TABLE 2 PATTENT POPULATION BY PSYCHOSES—December 31st, 1956

CLASSIFICATIONS:			
	Male	Female	Total
Forward	773	539	1312
320 Pathological Pensonality: 320.1 Paranoid personality 320.3 Inadequate personality 320.4 Antisocial personality 320.7 Other and unspecified	1 1 1 3	 3	1 1 1 6
321 Immature Personality	1	1	2
322 Alcoholism: 322.1 Chronic Alcoholism	4	1	5
323 Other Drug Addiction	1		1
325 Mental Deficiency: 325.0 Idlocy	4		4
325.1 Imbecility	38	9	47
325.2 Moron	17	11	28
325.3 Borderline intelligence	3	7	10
325.4 Mongolism		1	1
325.6 Other and unspecified	6 13	6 5	12 18
025 General Paresis	40	6	46
		б	
or of the officer of the orange of the orang	2	****	2
026.1 Psychoses with other syphilis		2	11
083.1 Postencephalitic Personality disorders		1	1
083.2 Postencephalitic Psychoses	2	****	2
353 Epilepsy (without psychosis):			
353.1 Grand mal		1	1
353.2 Other, unspecified		1	1
688.1 Puerperium Psychoses		1	1
900 Other Conditions (Not Psychotic)		2	5
930 Not Psychotic	1	1	2
Total	923	598	1521

PROVINCIAL MENTAL HOSPITAL PONOKA, ALBERTA

TABLE 3 FIRST ADMISSIONS DURING 1956 BY PSYCHOSES

	Male	Female	Total
Syphilis with Psychosis	3		
Schizophrenia (all types)	48		3
Manic Depressive (all types)	48	38	86
Involutional	11	9	20
Paranoid conditions	4	13	17
Paranoid conditions	8	7	15
Senile Psychoses	39	16	55
Pre-senile Psychoses	1	1	2
Psychoses with Cerebral Arteriosclerosis	20	9	29
Alcoholic Psychosis	14	2	16
rsychoses with other demonstrable eticlogy	9	7	16
Other and Unspecified Psychoses	6	8	14
Anxiety Reaction	2	13	15
riysterical Reaction	~	1	10
Neurolic Depressive Reaction	7	11	18
Uther and Unspecified Psychonographic Reactions		11	18
Paulological Personality (all types)	0	4	4
	9		9
Mental Deficiency without Psychosis	15	3	18
Enilency	8	5	13
Primary Robavious Disardors	2	2	4
Primary Behaviour Disorders		1	1
Mental Observation without need for Psychiatric care	16	9	25
Total			-
Total	222	159	381

TABLE 4
RACIAL ORIGIN OF FIRST ADMISSIONS DURING 1956

	Male	Female	Total
ORIGIN			
Austrian	5	2	7
Belgian		2	2 2
Chinese	2		2
Czech and Slovak	4	6	10
Danish	2	3	5
Dutch	5	6	11
English	64	44	108
French	9	3	12
German	19	20	39
Hungarian	2	3	5
Icelandic	1	ī	2
Italian	2		5 2 2 9 28
Indian-native-breed	4	5	9
Trish	19	9	28
Jewish	2		2
Norwegian	4	4	8 13
Polish	9	$\bar{4}$	13
Russian	7	6	13
Scottish	35	18	53
Swedish	10	6	16
Swiss	1	2	3
Ukrairian	5	6	11
Not known			
All others	7	3	10
American born	1	3	4
Canadian born	3	ă	6
		_	
Total	222	159	381

PROVINCIAL MENTAL HOSPITAL PONOKA, ALBERTA

TABLE 5
AGE OF FIRST ADMISSIONS DURING 1956

Age	Male	Female	Total
Under 15 years		2	2
15 to 19 years		5	19
20 to 24 years		11	24
25 to 29 years		23	42
30 to 34 years	20	23	43
35 to 39 years	23	12	35
40 to 44 years	12	15	27
45 to 49 years	20	11	31
50 to 54 years	16	12	28
55 to 59 years	9	8	17
60 to 64 years	9 13	6	15
65 to 69 years		4	17
70 to 79 years		17	50
80 years and over	21	10	31
Total	222	159	381

$\begin{tabular}{llll} TABLE~6\\ DISCHARGES~BY~PSYCHOSIS~AND~CONDITION~ON~DISCHARGE\\ \end{tabular}$

	Reco	boros	Tmn	roved	U:		Not	Psy.		Tota	ls
CLASSIFISATION:					char	igea F	M	F	M	F	1
	M	F	M	F	M	r	TAT	r		-	
Syphilis with Psychosis			1		3				4 87	0.4	171
Schizophrenia (all types)	27	15	50	58	10	11				84 31	52
Manic Depressive (all types)	12	7	7	24	2				21	19	27
Involutional	5	5	3	14					8 15		21
Paranoid conditions	1		8	4	6	2				6	
Senile Psychosis			1		4	3			5	3	1
Pre-Senile Psychosis			1						Ţ		
With Cerebral Arteriosclerosis	4	1	4	4	1				9	5	14
Alcoholic Psychosis	16	4	6						22	4	26
Psychosis of other demonstrable											
etiology	1	4	3	5	4				8	9	17
Other and unspecified psychoses	3	5	4	7	3	2			10	14	24
Anxiety Reactions			2	15	1	5			3	20	23
Hysterical Reaction		1	1	2					1	3	4
Obsessive Compulsive reaction		1								1	1
Neurotic Depressive reaction	1	4	4	11	1	3			6	18	24
Other and unspecified Psycho-											
neurotic reactions		1		4		3				8	8
Pathological Personality							17	1	17	1	18
Alcoholism without Psychosis							22	7	22	7	29
Mental Deficiency without psychosis							6	8	6	8	14
Epilepsy							3	2	3	2	5
Primary behaviour disorders								1		1	1
Other and unspecified disorders of											
personality, character, etc								1		1	1
Mental observation without need											
for Psychiatric care							13	10	13	10	23
Other non-psychiatric conditions							1	1	1	1	2
Other non-poyomatric containing					_			_	_		
Totals	70	48	95	148	35	29	62	31	262	256	518

PROVINCIAL MENTAL HOSPITAL PONOKA, ALBERTA

TABLE 7 DISCHARGES BY PSYCHOSES AND DURATION OF RESIDENCE

CLASSIFICATION:		ler 3 nths	Unde		Un	der ear	Ov Ye			Total	s
CHASSII IOM I IOM.	M	F	M	F	M	F	M	F	M	F	T
Syphilis with Psychosis Schizophrenia (all types) Manic Depressive (all types) Involutional Paranoid Conditions Senile Psychosis Pre-Senile Psychosis With Cerebral Arteriosclerosis	3 24 12 4 7 5	35 18 17 3 2	26 5 2 4 	18 6 2 2	23 4 2 	18 7 1	2 14 4 	13	4 87 21 8 15 5 1	84 31 19 6 3	4 171 52 27 21 8 1
Alcoholic Psychosis	17	3	3	1	2				22	4	26
etiology Other and Unspecified psychoses All Psychoneurotic reactions Pathological Personality Alcoholism without Psychosis Mental Deficiency without psychosis Epilepsy Primary behaviour disorders Other and unspecified disorders of	7 2 9 12 19 2 3	4 8 39 1 6 5 2	5 2 1 3 	3 3 6 1 2 	3 1 	2 3 4	1 1 1 2 	1 1	8 10 10 17 22 6 3	9 14 50 1 7 8 2	17 24 60 18 29 14 5
personality, character, etc								1		1	1
for Psychiatric care	12	10		****			1		13 1	10 1	23 2
Totals	147	157	53	45	37	36	25	18	262	256	518

TABLE 8

CAUSES OF DEATH DURING 1956 ABRIDGED INTERNATIONAL CLASSIFICATION

CLASSIFICATION:	Male	Female	Totals
3. Syphilis and Sequelae	5	1	6
18. Malignant Neoplasms	5	1	6
19. Benign and unspecified neoplasms	1		1
22. Vascular lesions - Central nervous system	4	3	7
25. Chronic Rheumatic Heart Disease	1	1	2
26. Arteriosclerotic and degenerative heart disease	8		8
27. Other diseases of the heart	2	3	5
28. Hypertension with heart disease	1		1
29. Hypertension without mention of heart		1	1
31. Pneumonia	8	1	9
36. Gastritis, Duodenitis, Enteritis and Colitis	1		1
38. Nephritis and Nephrosis	1	****	1
45. Senility, etc., ill-defined causes	9	5	14
46. All other diseases	$\frac{2}{2}$	6	8
49. Suicide and self-inflicted injury	2		2
Totals	50	22	72
DEATHS BY PSYCHOSIS			
TABLE 9			
7 1 11 11 7	0		8
Syphilis with Psychosis	0	7	15
Schizophrenia	0	1	2
Paranoid Conditions Senile Psychosis	15	5	20
Senile Psychosis	10	2	3
Pre-senile Psychosis With Cerebral Arteriosclerosis	8	5	13
	1	J	1
Alcoholic Psychosis	1	7	5
Psychosis of other demonstrable etiology	1	1	1
Psychoneurotic disorders	1	1	2
Non-psychiatric conditions	2	-	$\begin{array}{c} 1 \\ 2 \\ 2 \end{array}$
Non-payematric contribute			
Totals	50	22	72

Provincial Mental Institute, Edmonton

A. D. MACPHERSON, M.D., Medical Superintendent

On December 31, 1956, there were in residence 1022 male patients and 490 female patients. On leave or otherwise absent were 82 male patients and 47 female patients. The total patient population at the end of the year was 1104 males and 537 female patients. This is a total of 1641 patients, an increase of 64 over the previous year.

Twenty patients were transferred here from other mental hospitals. During the year there were 794 admissions. This is an increase of 107 over the previous year.

There were 730 discharges in 1956, an increase of 190 over last year. 84 patients were transferred to other mental hospitals and there were 63 deaths (37 autopsies). 42 of these deaths were in the senile group.

General Health

This has been good during the year. There were no serious epidemics. T.A.B. immunization was carried out on all new admissions and all new staff, and booster doses were given where required. Chest X-rays were done on all new admissions and new staff, and also a complete re-survey on all patients and staff.

Treatment of Patients

Electro Shock Therapy was given to 388 patients, and Insulin Shock Therapy to 142. Combined E.S.T. and I.S.T. was given in many cases. Periodic supporting treatment (E.S.T.) was given in a considerable number of cases. Group therapy was continued and found to be very helpful.

The use of ataractic drugs were continued during the year. Largactil was found to be the most effective, Serpasil effective in certain cases but not generally effective. Equanil was found to be very effective in neurotic conditions. The results in the case of chronically disturbed patients were very good. The response of new admissions was more variable. We have found that the use of these drugs has made the patients much more accessible and has improved the atmosphere of the wards remarkably. We feel that these preparations are of great value in making the patients more accessible. It has also cut down the number of secluded patients.

Occupational Therapy

This department remains very active. Work is now done on most of the wards as well as in the main Occupational Therapy building. The average daily attendance is 200 patients. All patients on acute treatment attended as well as a large number of continued treatment patients. Many of the chronic patients attend the classes on the wards.

Social Service

This work is of great importance to us in the investigation of new patients, rehabilitation of discharged patients, group therapy and public relations. In addition, the Social Worker carries out group therapy and supervises the Correspondence School work. This latter group was small this year, but all patients except one completed the work satisfactorily.

Recreational Program

The full-time program has continued. This takes in all wards and almost all forms of recreational activity. The D.V.A. has continued to assist us in providing stage shows, tickets to many activities in the city, and dance orchestras. The Students' Christian Movement has continued to send volunteers to the dances. They were joined in the spring by groups of volunteers from the Canadian Mental Hygiene Group.

Library

This department has been very active during the year. New volumes were added.

Beauty Parlor

This department has been very active during the year. About 30 patients attend per day.

X-ray Department

This department continues to be very active. A total of 5858 examinations were done. This is an increase of over 1,000 above the previous year. In addition, the department carried out B.C.G. work.

Electroence phalograph

This department remained very active. A total of 319 E.E.G.'s and 118 E.C.G.'s and 24 B.M.R.'s was done during the year. In addition, the technician continued the E.E.G. work at Ponoka.

Laboratory

The work of this department was increased slightly over last year. A total of 13,778 procedures were carried out. This is an increase of approximately 1,200 over the previous year.

Both the laboratory and X-ray departments assisted in the training given by the department for technicians from the school for combined technicians, which is operated by the department.

Surgical Services

During the year 12 major operations and 56 minor operations were carried out. Two deliveries were performed, plus one passerby who had to break her journey in order to be delivered here.

Dental Department

A total of 3,750 treatments was carried out during the year. All types of dental work were done. All patients in the hospital were examined during the year and wherever required, treatment was done. In addition, the dentist also did work at Rosehaven, Camrose, and held clinics for dental students at the University of Alberta.

Training School

Nineteen students graduated in Psychiatric Nursing in 1956, completing the three-year course. There were 63 students in the various years of the three-year course. Clinics and demonstrations were given to the students of the graduating classes from three of the city hospitals during the year. The Affiliation Training Program for final-year students from the Royal Alexandra, Misericordia and General Hospitals, Edmonton, and B.Sc. classes, was initiated, beginning in the spring. An average of 12 students are given a two-month course with lectures, clinics and ward experience.

Department of Building and Maintenance

The maintenance work was kept up very well throughout the year as usual.

Fire Protection

Fire practices are held at regular intervals. Inspections are carried out by the Fire Protection Branch. There were no fires.

Farm

Farm operations were very successful. The crop was excellent.

Garden

The garden crop was very good, but some difficulty was experienced in harvesting, due to the excessive rain.

Laundry

No equipment was added during the year. This department does very good work.

Tailor Shop

This department was also very busy. A great amount of work was done during the year.

Shoe Shop

This department remains very busy and active.

Sewing Room

This department does very good work in repairing damaged and worn clothing.

Dietary Department

Continues to function very well. Nothing of note has occurred in this department.

Religious Services

The Lutheran minister has care of the work for the Lutheran Church. He holds services every Sunday and brings out choirs and other entertainment groups frequently. Roman Catholic services are held every Sunday. The Anglican and United Churches provide services on alternate Sundays. The Jewish, Lutheran and Ukrainian women's organizations visit patients frequently. The Chinese Benevolent Association also visits the hospital.

Police Court

This service continued to be very busy. A considerable number of remands were seen during the year, as well as people in the Police Court who were not remanded. There were a total of 281 remands during the year.

Business Office

This office continues to function in its usual efficient manner.

Medical Records Office

The work of this department is done very efficiently. There was a shortage of staff generally throughout the year.

Staff

The staff situation, both male and female, has remained good. There has been little difficulty keeping the establishment filled. Although there is still a shortage of Graduate Nurses, the situation has somewhat improved.

Visitors

During the year the hospital was visited by the Hon. Dr. Cross, Hon. Mr. Taylor and Dr. MacLean, and the Visiting Board carried out its annual inspection in the fall. These visits were very much appreciated.

Public Relations

Members of the staff have continued to address public organizations whenever possible on the work of the hospital and the problems in the psychiatric field. These contacts were very useful and we would like to see them increased.

The final-year students from the University of Alberta Medical School were given regular clinics during the year.

TABLE I MOVEMENT OF PATIENT POPULATION DURING 1956

	M	F	т	M	F	T
In residence December 31, 1955 On leave or otherwise absent				1008 63	468 38	1476 101
Total on books December 31, 1955				1071	506	1577
ADMISSIONS: FIRST ADMISSIONS:						
(a) Voluntary	55	32	87			
(b) Medical Certificates	111	132	243			
(c) Warrant	161 3	57 7	218 10			
(d) Mental Defectives Act						
Total	330	228	558			
READMISSIONS:	56	43	99			
(b) Medical Certificates	15	29	44			
(c) Warrant	39	27	66			
(d) Mental Defectives Act	3	_4	7			
Total	113	103	216			
TRANSFERS IN: TOTAL ADMISSIONS:	12 455	-8 339	20 794			
SEPARATIONS: DISCHARGES:						
(a) Recovered	76	73	149			
(b) Improved(c) Unimproved	178 22	143 12	321 34			
(d) Unchanged	62	17	79			
Total	338	245	583			
Transfers Out: DEATHS:	45 39	39 24	84 63			
TOTAL SEPARATIONS:	422	308	730			
Total on books December 31, 1956				1104	537	1641
On leave or otherwise absent				82	47	129
Total in residence December 31, 1956				1022	490	1512

TABLE II

PSYCHOSES OF THE PATIENT POPULATION, DECEMBER 31, 1956

		Male	Female	Total
300	SCHIZOPHRENIC DISORDERS			
	300.0 Simple Type	13	10	23
	300.0 Simple Type 300.1 Hebephrenic Type 300.2 Catefonic Type	45 288	10 145	55
	300.2 Catatonic Type	167	46	433 213
	300.4 Acute Schizophrenic Reaction	9	7	16
	300.5 Latent Schizophrenia	4	3	7
	300.6 Schizo-Affective Psychosis	6	3	9
	300.7 Other and Unspecified	25	21	46
301	MANIC DEPRESSIVE REACTION			
	301.0 Manic and Circular (Manic Type)	18	17	35
	301.1 Depressive	22	11	33
	301.2 Other	1	2	3
302	INVOLUTIONAL MELANCHOLIA	3	11	15
303	PARANOIA AND PARANOID STATES	36	12	48
304	SENILE PSYCHOSIS	25	19	44
305	PRESENILE PSYCHOSIS	2	4	6
306	PSYCHOSIS WITH CEREBRAL ARTERIOSCLEROSIS	22	13	35
307	ALCOHOLIC PSYCHOSIS	9	2	11
		9	-	11
308	PSYCHOSIS OF OTHER DEMONSTRABLE ETIOLOGY		1	1
	308.0 Resulting from Brain Tumour 308.1 Resulting from Epilepsy	16	6	22
	308.3 Secondary to Infective or Parasitic Diseases			ĩ
	308.4 Secondary to Diseases of the Blood	1		1
	308 5 Secondary to Diseases of the Nervous System	8		8 5
	308.7 Secondary to Accidents and Violence 308.8 Secondary or Due to Other Diseases	5	 1	5
		3	1	4
309	OTHER AND UNSPECIFIED PSYCHOSES			
	309.1 Psychoses with Psychopathic Personality		1	1
	309.2 Psychoses, Other and Unspecified	65	33	98
310	ANXIETY REACTION WITHOUT SOMATIC SYMPTOMS	2	3	5
311	HYSTERICAL REACTION	1	****	1
313	OBSESSIVE-COMPULSIVE REACTION		1	1
314	NEUROTIC-DEPRESSIVE REACTION	2	6	8
318	PSYCHONEUROTIC DISORDERS, OTHER, MIXED			
210	AND UNSPECIFIED			
	318.5 Other and Unspecified Types	1	1	2
320	PATHOLOGICAL PERSONALITY			
320	320.0 Schizoid Personality	3	2	5
	320.3 Inadequate Personality	1	1	2
	320.4 Antisocial Personality	3		3
	320.6 Sexual Deviation	2		5 2 3 2 1
	320.7 Other and Unspecified	1	••••	1
322	ALCOHOLISM	_		
	322.0 Acute	1		1
	322.1 Chronic	5	1	6
323	OTHER DRUG ADDICTION	****	1	1
324	PRIMARY CHILDHOOD BEHAVIOUR DISORDERS	6	****	6
325	MENTAL DEFICIENCY			
	325.0 Idiocy	25	17	42
	325.1 Imbecility	74	45	119
	325.2 Moron		4	36
	325.3 Borderline Intelligence	2 3	3	5
	325.4 Mongolism		2 7	5 27
200		20	•	21
326	UNSPECIFIED CHARACTER, BEHAVIOUR AND			
	INTELLIGENCE DISORDERS 326.4 Other and Unspecified	2	1	3
024		1	-	
	TABES DORSALIS			1
025	G.P.I.	29	6	35
026	OTHER SYPHILIS OF CENTRAL NERVOUS SYSTEM			
	026.0 Without Psychosis	$\frac{1}{2}$	****	$\frac{1}{2}$
		4	****	4
083	LATE EFFECTS OF ACUTE INFECTIOUS			
	ENCEPHALITIS 083.1 Postencephalitic Personality Disorder	1	9	2
	083.1 Postencephalitic Personality Disorder	2	2 1	3
325	EPILEPSY	2	1	J
323		3	6	9
	353.1 Grand Mal	ĭ	1	2
793	Observation Without Need for Further Psychiatric Care			2
100	obbit and the field for a winer a by chattle care			
	Total	1022	490	1512

TABLE III

PSYCHOSES BY FIRST ADMISSION—1956

		Male	Female	Total
300	SCHIZOPHRENIC DISORDERS			10
	300.0 Simple Type	4 44	6 31	10 75
	300.3 Paranoid Type		4	15
	300.4 Acute Schizophrenic Reaction	13	12	25
	300.5 Latent Schizophrenia	8	4	12
	300.6 Schizo-Affective Psychosis	1 12	1 11	23
301	MANIC-DEPRESSIVE REACTION	12	11	20
301	301.0 Manie and Circular	6	3	9
	301.1 Depressive		4	7
	301.2 Other and Unspecified		1	1
302	INVOLUTIONAL MELANCHOLIA	4	12	16
303	PARANOIA AND PARANOID STATE	7	4	11
304	SENILE PSYCHOSIS	23	25	48
305	PRESENILE PSYCHOSIS		3	4
306	PSYCHOSIS WITH CEREBRAL ARTERIOSCLEROSIS	19	14	33
307	ALCOHOLIC PSYCHOSIS	13	2	15
308	PSYCHOSIS OF OTHER DEMONSTRABLE ETIOLOGY	10	2	10
000	308.0 Resulting from Brain Tumor	1		1
	508.1 Resulting from Ephepsy		1	ī
	308.2 Resulting from Infectious Diseases	1		1
	308.3 Resulting from Endocrine Diseases 308.4 Resulting from Diseases of the Blood	2	ï	2
	308.5 Resulting from Diseases of Nervous System	6	1	2 2 7
	308.7 Secondary to Accident and Violence		ī	i
	308.8 Secondary or Due to Other Diseases		2	2
309	OTHER AND UNSPECIFIED PSYCHOSIS		1	1
	309.1 Psychosis with Psychopathic Personality		2	2
310	309.2 Psychosis with Mental Deficiency	2	3	5
311		4	5	9
	HYSTERICAL REACTION	2	3	5
313	OBSESSIVE COMPULSIVE REACTION	4		4
314	NEUROTIC DEPRESSIVE REACTION	18	20	38
318	PSYCHONEUROTIC DISORDERS 318.5 Unspecified			
320		2	2	4
520	PATHOLOGICAL PERSONALITY 320.0 Schizoid Personality	3.4	,	
	320.1 Paranoid Personality	14 7	4	18 7
	320.3 Inadequate Personality	4	2	6
	320.4 Antisocial Personality 320.5 Antisocial Personality	24	5	29
	320.6 Sexual Deviation	3 8	1	4
	320.7 Other and Unspecified		1	9
321	IMMATURE PERSONALITY		1	1
	321.5 Other and Unspecified	3	3	6
322	ALCOHOLISM	1		1
	322.1 Chronic Alcoholism	21	6	27
	522.2 Unspecified	1		í
324	PRIMARY CHILDHOOD BEHAVIOUR DISORDERS	8	7	15
325	Mental Deficiency 325.1 Imbecility	2	1	33
	325.1 Imbecility	2	5	7
	325.3 Borderline Intelligence	7	3 3	4
024	TABES DORSALIS	1	0	10
025	G.P.I.	3		1
353	EPILEPSY	3	•	3
	353 Grand Mal	1	1	2
	555.5 Other and Unspecified	2	1	3
793	Observation without further need for Psychiatric Care	5	4	9
	Total	330	228	558

TABLE III (A) FIRST ADMISSIONS—1956

DIAGNOSTIC CLASSIFICATION	Male	Female	Total
Syphilis with Psychosis	4		4
Schizophrenia (All Categories)		69	162
Manic-Depressive (All Categories)		8	17
Involutional	4	12	16
Paranoia	7	4	11
Senium	23	25	48
Pre-Senile	7	3	4
Psychosis with Cerebral Arteriosclerosis	19	14	33
rsychosis with Cerebral Arterioscierosis	13	14	15
Alcoholic Psychosis		6	10
Psychosis of Other Demonstrable Etiology		0	1 (
Other and Unspecified Psychosis	2	5	(
Anxiety Reaction	4	5	9
Hysterical Reaction		3	5
Obsessive-Compulsive Reaction			4
Neurotic Depressive Reaction		20	38
Somatic Reaction			
Other and Unspecified Psychoneurotic Reactions	2	3	5
Pathological Personality (All Categories)	60	14	74
Alcoholism without Psychosis	23	6	29
Mental Deficiency without Psychosis	12	12	24
Epilepsy	3	2	5
Primary Behaviour Disorders	8	7	15
Other and Unspecified Disorders of Character, Behaviour,	Ŭ		20
Immature Personality	3	4	7
Mental Observation without Need for Psychiatric Care	3 5	4	q
Mental Observation without reed for Psychiatric Care		7	3
Total	330	228	558

TABLE IV

NATIVITIES OF PATIENTS ADMITTED DURING 1956

Country	Male	Female	Total
Australia		1	1
Austria	6	$\frac{1}{2}$	8
Belgium	U	2	2
	313	258	571
Czechoslovakia	910	256	2
		4	2
	2 3	****	2 3
Denmark	22	4.0	3
England		13	35
Finland	1	****	1
France		1	1
Germany	11	5	16
Holland	7	4	11
Hungary	1		1
India		1	1
Ireland	7	2	9
Italy	3	****	3
Lithuania	1	****	1
Norway	3	4	7
Poland	19	12	31
Roumania	3	2	5
Russia	4	2 5	9
Scotland	14	7	21
Sweden	2		2
Ukraine	14	7	21
U.S.A	16	10	26
Wales	1	~~	1
Yugoslavia	2	1	3
* 48001414			
Total	455	339	794

TABLE V

AGES OF PATIENTS ADMITTED DURING 1956

Ages	Δ	First Admissions			dmiss	ions	Г	`ransfe	rs		Total	
Ages	M	F	Т	M	F	T	M	F	T	M	F	T
Under 15 years	11	4	15							11	4	15
15 to 19 years	24	16	40	3	3	6	1	1	2	28	20	48
20 to 24 years	36	17	53	9	7	16		1	1	45	25	70
25 to 29 years	45	26	71	17	13	30	1		1	63	39	102
30 to 34 years	32	25	57	13	21	34	1		1	46	46	92
35 to 39 years	34	27	61	9	15	24				43	42	85
40 to 44 years	33	20	53	16	11	27		1	1	49	32	81
45 to 49 years	19	18	37	19	11	30				38	29	67
50 to 54 years	27	15	42	-8	7	15	2	3	5	37	25	62
55 to 59 years	12	9	21	10	5	15				22	14	36
60 to 64 years	12	7	19	5	4	9				17	11	28
35 to 69 years	îĩ	10	21	3	4	7	2	1	3	16	15	31
70 and over	34	34	68	1	2	3	5	1	6	40	37	77
TOTALS	330	228	558	113	103	216	12	8	20	455	339	794



Unchanged

TABLE VI
DISCHARGES CLASSIFIED WITH REFERENCE TO PRINCIPAL PSYCHOSES AND CONDITIONS OF DISCHARGES FOR 1956

PSY	CHOSES	- I	Recover	ed		Improv	ed		or Unimpn			Total	
		М	F	T	M	F	Т	-	F	T	M	F	T
300	SCHIZOPHRENIC DISORDERS		,	,	5								
300.1	St. Philosopherical Constitutions St. Philosopherical St. Philosopherical St. Per Per Paranold Type Paranold Type Paranold Type Reaction Acute Schizopherical Reaction Schizo-Affective Psychosis Aher and Urspecified	18	10	28	21	24	45	4	1	5	43	3 35	78
300.3	Paranoid Type	5	7	7 14	5	8	7	2	1	3	7	5	12
300.	Latent Schizophrenia		6	6	7	1	4		2	2	13	- 1	21 15
300.6	Schizo-Affective Psychosis	1 4	3 5	4 9	10	3	. 4				2	6	- 8
				9	10		18				14	13	27
301.	Manic and Circular Depressive	8	4 5		2	5	5 9	1		1	5 5	9 12	14
301.2	Other		1	1								1	1
303	Depressive Depressive Other INVOLUTIONAL MELANCHOLIA PARANOIA AND PARANOID STATE	5 9	4	100	- 7		8				5	12	17
	SENILE PSYCHOSIS PRESENILE PSYCHOSIS PSYCHOSIS WITH CEREBRAL ARTERIOSCLEROSIS				6	4	10				6	4	10
305 306	PRESENTE PSYCHOSIS PSYCHOSIS WITH CEREBRAL ARTERIOSCI PROCTO				3	2	2	1112		2	1	1	2
307	ALCOHOLIC PSYCHOSIS	6		6	5	2	5	1		2	5 11	3 2	7.3
308	PSYCHOSIS OF OTHER DEMONSTRABLE ETIOLOGY												20
308.1	Resulting from Epilepsy				1	2	- 1	1		1	2	2	4
308.3	Secondary to Endocrine Diseases		1	1	1	1	2	1		1	1	9	1 3
308.4	Secondary to Diseases of Blood				2	2	4				2	2	4
308.7	Secondary to Accident		1	1	2 1	1	4				3	2	5
308.8	PSYCHOLOGY PSYCHOLOGY PSYCHOLOGY Secondary to Indective Diseases Secondary to Endocrine Diseases Secondary to Endocrine Diseases Secondary to Endocrine Diseases Secondary to Endocrine Diseases Secondary to Accident Secondary to Accident Secondary to Arcident				1	1	2				i	1	â
309	OTHER AND UNSPECIFIED PSYCHOSES												
309	Psychoses Other and Unspecified	1 3		3	4	1	5		2	2	2	2	4 8
310	ANXIEY REACTION	4	5	9		3	3				á	8	12
311	OBSESSIVE COMPUT SORV PEACTION	2	1	3	5		5	-	2	2	2	3	5
314	OTHER AND UNSPECIFED PSYCHOUSE PSYCHOUSE WITH PSYCHOLDE PSYCHOUSE PSYCHOLOGY AND PSYCHOLOGY ANXIETY REACTION HYSTERICAL REACTION OBSESSIVE-COMPULSORY REACTION NEUROTIC DEPRESSIVE REACTION	11	8	19	6	7	13	1	2	3	6 18	17	6 35
315	PSYCHONEUROSIS PSYCHONEUROTIC DISORDERS					1	1					i	1
	PSYCHONEUROTIC DISORDERS Hypochondriacal Reaction		1	1	5		5						
318.5	Hypochondriacal Reaction Unspecified Type		2	8	3		3				3	2	5
320.1	Schizold Personality Paranoid Personality Inadequate Personality				10	4	14	5	3	3	15	7	22 6
320.3	Inadequate Personality				5	- 8	8	2		2	7	3	10
320.4	Antisocial Personality Asocial Personality		1	1	10	3	13	21	3	24 5	31	7	38
320.6	Asocial Personality Sexual Deviation Other and Unspecified					ĩ	1	7	1	2	5	3	8
320.7	Other and Unspecified				1	2	3				1	2	3
321 321.0	IMMATURE PERSONALITY Emotional Instability				1	4	2						
321.5	Emotional Instability Other and Unspecified				2	4	í		1	1	2	5	7
322.0	Chronic	1 3	1	1 4	18	14	32	III.	2	9	10 28	27	11
324	Acute Chronic Primary Child Behaviour		2	2	10	7	17	í	î	2	28 11	10	45 21
325.2	Moron				2	1	2	2		2 3	4	- 1	5
325.3	Imbedity Imbedity Moron Borderline Intelligence Other and Unspecified				1	1	2	6	2	8	7	4 3	5 10
353	EPILEPSY					1	1					1	1
					1	2	3				1	0	2
353.3	Grand Mal Other and Unspecified				1	2	3	2		2	3	2	5
793	Puerperal Psychosis Observation		1	1		4	4 3		2		- 12	5	5
							-	_ 3	_	5	5	-4	9
	Total	76	73	149	178	143	321	84	29	113	338	245	583

45

The Provincial-Municipal Respitalization Program is put into effect by a municipality or municipal to a funding agreement with its local hospital or inspitals dispital overage of its ratepayers and contract hollers. Ratepayers and their dependents are automatchiely owered in which benefits
through the taxes they pay on real projecty. Morachagues who
purphases are residents of the province can obtain the same benefits by the
purphases at any time during the year of a inspital contract ranging in price from \$8.00 to \$11.00.

Total Payment

junoury

Special Services Days

PENSION BENEFITS

720.05 183.25 218.80 687.95 061.30 8.888.30 5.162.50 4.356.65 11.024.65 50.856.75

1,492.10 1,046.50 866.45 2,878.75 10,360.65

694 598 403 4,063 1,396 1,047 1,047 151 841

The plan provides coverage for standard ward care and special hospital services. The charge to the platter for thes services is \$1.00 per day for standard such dreams of \$1.00 per day. Observing on the type of logical to which he platter is admitted. For special looping service, black the platter is provided as long = 4 cross the charge the platter required.

906.20 661.30 255.95 575.65

12,426,20 12,633,70 12,225,45 1,331,35 9,240,25 9,568,40 6,973,40 6,973,50 5,188,00

3,001.40 2,893.90 354.85 1,976.35 2,336.45 2,336.45 1,736.70 1,736.70 1,738.70

The province pays 60% of the coshare of the costs amounted to \$4.480,96 of \$936,778.15 or 26.4% over 1955.

31.971.75 243.419.30 243.423.23 19.000.60 16.794.20 16.794.20 16.794.20 16.794.20 20.188.95 20.188.95 20.188.95 20.188.95 20.188.95 20.188.30 18.955.35 33.634.90

28,226,55 18,815,55 9,865,75 11,651,45 20,470,55 24,226,35 18,860,60 15,899,70 2,153,85 12,521,80 6,945,05 4,819,05 14,977,15 47,516.70 12,433.88

6,367,35 4,476,75 2,330,95 2,736,95 4,052,75

2,497 1,905 1,273 1,885

22333 88831 22833 38232 82333 18238 18322 323233

18,389.15 17,360.25 32,381.25 91,750.90 36,292.35

5,534.25 4,112.55 3,123.65 2,371.60 1,098.65 1,008.65 1,232.60 1,235.65 2,237.60 1,235.65 2,237.60 3,5

Made in Peru

productive harm. to cause cancer, bidn the state of California WARNING

punod

The total number of patients provacare only, decreased sharply in 1156 and english of 543. The average length of 543 comprehensive program in 1556 are thin number of patients and the related path prepensive plan increased sharply. The pages of the total hospital days in the 560% of the total hospital days in the 350% of the 150% of th The following table shows the utilization the province and the province the provinc

			Patients
in approved nospitals unuer un-			nove of Patients Patients
S una	ation Plan for 1951-1956:		Jo sac
Spira	1951-	-	
ed no	for		
prove	Plan		
in ap	ation		

1961 1962 1964	Veter Digital of Finish Fe or								
Sec. 2015 Sec.	Sec. 23. Sec. 23. Sec. 23. Sec. 24. Sec. 25. Sec. 25. Sec. 25. Sec. 26.	Year	Days of Patients Discharged or Died	Patie					
200.05 2.00	200.05 2.00		387.323						
Maked Ward Care 10.6857	Maked Ward Care (20,006) (20,008) (21,07) (20,008) (21,07) (20,008) (21,07) (20,008) (21,07) (20,008) (21,07)		300'005	10					
March Ward Care 10.8877	March Care NA 1066 12.57 13.57	1953							
where Care 10.6.8%? 1.51 9.51 15.5 30.5 when Ward Care 20.51 15.5 30.5 when Ward Care 20.51 15.5 30.5 when Ward Care 20.51 15.5 30.5 30.5 15.5 30.5 30.5 15.5 30.5 30.5 30.5 30.5 30.5 30.5 30.5 3	eicle Chris 106-857	1953: Standard Ward Care					9	6.3	
where Care 20174 1236 4481 6231 51 51 51 51 51 51 51 51 51 51 51 51 51	March Care 2011-14 [12:16] (481) (48	Care	106,802*	1		3.0		20.1	
### Care 2877220 11.05 1	### Care \$87,723 11.5 11	1954: Standard Ward Care				100	50	30.8	3
Mary Ward Care 1850,088 791,787 21,055 98.88 79 80,027 7 100,000 1	Many Ward Care 183189 71,107 20.05 883 13 55 52 7 1 104 6 52 1 104 6 104 6 104 6 104 6 104 6 104 6 104 6 104 6 104 6 104 6 104 6 104 6 104 6 10					66		10.6	5
Complete Curv 398 K74 71 71 72 73 74 74 75 75 75 75 75 75	Complete Curv. 888 first 13 11 15 15 15 15 15 15	1955; Standard Ward Care				(F)	8	38.7	ř
Sandard Ward Care 1,388 5,9,351 jpg,84 7.9 7.9 7.9 45.0 Complete Care 847,945 447,945	1,255 54,525 1,355 54,525 1,355 1,					91	-	0.1	10
Complete Care 847.945 847.945	Complete Care Six months only, Special services benefits were abled to the Provincial Augustical Hospital Ration Provincial Augustics and Station Provincial Augustics and 1383.	1956; Standard Ward Care	1,358 819,25	S 12	107,054	r- 0)	2	45.0	1
	Sk months only, Special services benefits use and lanton Process, of sective July 1st, 1983	Complete Care	847,945	A Political	the Provi	wW-leio.	plejpa	1 Hos	100

4.620.00 7,884.11 7,779,099.15

503,409.25 2,325,017.90

180,799

503,409.25|2,325,017.90|7

180,799

TABLE VIII

DEATHS DURING 1956 BY ABRIDGED INTERNATIONAL STATISTICS CLASSIFICATION

		Male	Female	Total
1.	Tuberculosis of Respiratory System	2	1	3
17.	All other Diseases Classified as Infective and Parasitic	3	2	5
18.	Malignant Neoplasms	5	3	8
22	Vascular Lesions Affecting Central Nervous System	1	1	2
26.	Arteriosclerosis and Heart Disease	1	5	6
27.	All Other Diseases of the Heart	9	6	15
31.	Pneumonia	15	3	18
37.	Cirrhosis of the Liver	1	****	1
38.	Nephritis and Nephrosis	1	1	2
45.	Senility		1	1
46.	All Other Diseases	1	1	2
	Total	39	24	63

TABLE IX DEATHS—CLASSIFICATION ACCORDING TO PSYCHOSIS

		Male	Female	Total
300	Schizophrenic Disorders	5	4	9
301	Manic Depressive Disorders	1		1
307	Involutional Melancholia	***	1	1
302	Involutional Melancholia		1	1
303	Paranoia and Paranoid States		1	1
304	Senile Psychosis	9	7	16
306	Psychosis with Arteriosclerosis	6	7	13
307	Alcoholic Psychosis	2		2
308	Psychosis of Other Demonstrable Etiology	5	1	6
309	Other and Unspecified Psychosis	3		3
314	Neurotic Depressive Disorders		1	1
320	Disorders of Character, Behaviour and Intelligence	1	1	2
325	Mental Deficiency	3	****	3
353	Epilepsy		1	1
025	G. P. I.	4	0	4
			_	
	Total	39	24	63

TABLE X NUMBER OF OFFICERS AND EMPLOYEES ACCORDING TO CATEGORIES

	Male	Female	Total
Medical Superintendent	1		1
Assistant Medical Superintendent	ī		1
Medical Officers	8	2	10
Intern	Ü	ĩ	1
Dentist	1	*	i
	1	****	1
Business Manager	1	11	19
Clerical and Stenographic Staff	0	3	3
Laboratory Technicians		3	3
X-ray Technicians	2	****	2
Occupational Therapists	1		1
Recreational Therapists	2	****	2
Social Worker		1	1
Psychologist		1	1
Electroencephalograph Technician	1		1
Nurses (General Graduates)		22	22
Nurses (Psychiatric Graduates)	91	40	131
Attendants and Ward Aides (non-student)	70	46	116
Attendants and Ward Aides (1st year)	12	14	26
Attendants and Ward Aides (2nd year)	10	11	21
Attendants and Ward Aides (3rd year)	11	5	16
Dietitians		ž	2
Nurses' Home Staff	****	5	5
	25	21	46
Kitchen Help	20	9	9
Cleaning Domestics		14	18
Laundry Help	4	14	70
Chauffeur	Ţ		7
Garden and Farm Help	15	****	15
Engineers and Mechanical Help	23		23
Other Maintenance Help	26		26
Housekeeper		1	1
Shoemaker	1		1
Total	315	209	524

CHRONIC HOSPITALS

Provincial Auxiliary Mental Hospital, CLARESHOLM; average population 100 (females). Provincial Auxiliary Mental Hospital, RAYMOND; average population 134 (females). ROSE-HAVEN, CAMROSE; average population (mixed sexes). Total 744.

(Separate Reports Follow)

The Claresholm Auxiliary Mental Hospital cares for an average of 100 female patients. Of these, some 30 are Mental Defectives. The balance are patients whose average age is 62, and most of whom have spent many years in either Claresholm Hospital itself, or in the Provincial Mental Hospital, Ponoka.

There is very little movement of population. Three deaths occurred during the year, one Mental Defective was admitted directly, and one patient was transferred to the Hospital from the Provincial Mental Hospital, Ponoka.

Construction on a unit to house all the present population was commenced. The present Hospital building is considered unsuitable for patients and will be used eventually for other purposes.

The Provincial Auxiliary Mental Hospital, Raymond, cares for an average population of 134 female patients, of whom some 47 are Mental Defectives. The balance are patients whose average age is 65. Most of the latter have spent many years in Raymond or the Provincial Mental Hospital, Ponoka.

As in the case of the Claresholm Auxiliary Mental Hospital, there is very little movement of patient population. Two patients were admitted directly during the year, and one was received by transfer from the Provincial Mental Hospital, Ponoka. There were three deaths.

For all practical purposes, the Claresholm and Raymond Hospitals are open wards in the broad general sense.

"Rosehaven", Camrose, which cares for male and female senile cases, has an average population of 510 (288 males and 222 females). There is very little movement of population in this Hospital also. There were 76 deaths (55 males and 21 females). Deaths were attributable chiefly to degenerative diseases and broncho-pneumonia. Eight patients were actually discharged, while 33 were granted leave-of-absence for varying periods.

The general health of the patients is excellent, considering their ages, and the death rate appears phenomenally low considering the average age of the patients is 80 plus.

Provincial Auxiliary Mental Hospital Claresholm

R. R. MACLEAN, M.D.

Movement of Patients

There were 99 patients in residence on January 1, 1956, and on December 31, 1956, there were 96 patients in residence. One patient was on leave-of-absence for Christmas and the New Year.

There was one admission during the year under the Mental Defectives Act.

One patient was transferred from the Provincial Mental Hospital, Ponoka, to this hospital.

One patient was discharged to the care of her parents, and one patient was transferred to the Provincial Mental Institute, Oliver.

There were three deaths during the year due to cardiac degenerative conditions.

Accidents and Elopements

There were no elopements during the year and no accidents of a serious nature.

General Health

The general health of the patients was good during the year. Dr. Rose, a local physician, has made regular visits and has given the patients excellent care. The necessary X-ray and laboratory tests were done at the Claresholm Municipal Hospital.

Occupational Department

The occupational department maintained its high standard of work. Instead of having an annual sale of work this year articles were sold throughout the year and the total monetary returns were much the same as previous years.

During the winter months classes are held in the day room for the more deteriorated or retarded patients. They do simple knitting, embroidery, colouring, and making scrapbooks, and some group reading. It is found that the patients are quieter and less quarrelsome when there is staff available to conduct these classes.

There is a garden group of twenty to twenty-five during the summer months.

Recreational Activities

The usual parties were held for the patients and sports day and bingo parties. The patients also enjoy television during the evenings.

The Salvation Army, United Church choir, and other choral groups brought their music to the hospital. These programs were greatly enjoyed by the patients.

Films are shown at the hospital and the majority of the patients attend these shows.

When the weather permits, as many patients as possible go for walks. During the summer months all the patients are taken out on the lawns for two or three hours each day.

Beauty Parlour

Many of the patients get their hair done regularly and look forward to being dressed up for Sunday.

Religious Services

Religious services are conducted by the local clergymen on Sunday afternoons.

Dentistry

The patient's teeth were examined by Dr. Palmer from the Provincial Mental Hospital, Ponoka, who visited the hospital in June. Emergency dental work is done by the local dentists.

Buildings

The necessary repairs to the buildings and equipment were carried out by the maintenance staff. A new root house has been built and will be completed in the spring. Work has commenced on a new one-story dormitory to house one hundred patients.

Gardens and Grounds

The vegetable crop was excellent and some potatoes were sold.

Visitors

The hospital was visited by Dr. W. W. Cross and Dr. Somerville. Dr. R. R. MacLean, Director, Division of Mental Health, visited several times and his interest and advice were greatly appreciated.

The Visiting Board visited the hospital in October.

Relatives and friends visited the patients during the year.

TABLE No. 1 MOVEMENT OF PATIENT POPULATION DURING 1956

				Male	Female	Total
In residence January 1, 1956					99	99
On leave or otherwise absent					1	1
ADMISSIONS:						
First Admissions:						
(a) Voluntary			****			
(b) Certificate	****		****			
(c) Warrant(d) M. D. Act	****			••••		
Re-Admissions:		Т	1	****	1	1
(a) Voluntary						
(b) Certificate						****
(c) Warrant					****	****
(d) M. D. Act	****	****				
Transfers		1	1		1	1
m / 1 / 1 / 1				••••	102	102
Total Admissions		2	2			
Separations::						
Discharges:						
(a) As Recovered		****	****			****
(b) As Improved(c) As Unimproved	****			****		
Total Discharges	****	1	1	****	1	1
Transfers		1	1	****	1	1
Deaths		3	3		3	3
Total Separations					5	5
				****	97	97
On leave or otherwise absent					1	1
					96	96

TABLE 2 DIAGNOSIS ON ADMISSION

		Male	Female	Total
03	PSYCHOSES WITH EPIDEMIC ENCEPHALITIS		2	2
08	PSYCHOSES WITH CEREBRAL ARTERIOSCLEROSIS		1	1
10	PSYCHOSES WITH CONVULSIVE DISORDERS		1	1
11	(a) PRE-SENILE PSYCHOSES		1	1
16	PSYCHONEUROSES		1	1
17	MANIC-DEPRESSIVE PSYCHOSES		2	_2
18 19	DEMENTIA PRAECOX (Schizophrenia)	****	53	53
21	PSYCHOSES WITH MENTAL DEFICIENCY	****	6	6
23	WITHOUT PSYCHOSES		92	7
20	W1111001 1 51 0110525		23	20
	Total		97	97

CLASSIFICATION OF DEATHS ACCORDING TO PSYCHIATRIC DIAGNOSIS—1956

Paranoid and Paranoid Conditions Paraphrenia Psychosis with Cerebral Arteriosclerosis

TABLE 3

		Time in Mental Hospital						
Sex	Age	Years		Days				
Female	77	20		10				
Female	64	24	9	15				
	68	3	4	21				

Cause of Death
Pneumonia, Senility, Cachexia
Paranoid and Paranoid Conditions
Coronary Artery Disease—Paraphrenia
Coronary Thrombosis, Venous Ulcer,
Myocardial Disease, Psychosis with
Cerebral Arteriosclerosis

Provincial Auxiliary Mental Hospital Raymond

R. R. MACLEAN, M.D.

Movement of Patients

On January 1, 1956, there were one hundred and thirty-four patients in residence. During the year, there were two first admissions, one transfer received from Provincial Mental Hospital, Ponoka, Alberta, and two re-admissions. Separations consisted of two discharged in an improved state and three deaths, leaving a total in residence December 31, 1956, of one hundred and thirty-four.

Accidents and Elopements

There were no elopements. There were two accidents during the year requiring medical attention. One patient sustained a fracture of the Symphysis Pubis. An Epileptic patient fell down stairs in a seizure, sustaining a Colles' fracture of the right radius. Both patients made an uneventful recovery.

General Health

Two patients had troublesome Lipomas removed by local anaesthetic—one at the nape of the neck and the other in the right axilla. One patient had an X-ray of the chest and thoracic spine for diagnostic purpose. One patient had a chest X-ray as an admission precaution due to her frail condition. One patient became Jaundiced and an X-ray of the abdomen was taken, while another patient had a Gall Bladder series of X-rays. Minor illnesses were inconsequential and few in number. The three deaths are detailed in Table No. 3 of this report.

Occupational Therapy

Patients are occupied in the laundry, sewing room, kitchen, nurses' home and on the wards. A few patients help to pick vegetables in the garden, and one patient has the responsibility of gathering the eggs. There is a full-time attendance by other patients in the occupational parlor, where all kinds of needlework, knitting, painting, rag rug-making, etc., is done. Tea is served there each afternoon, and there is a radio and canary for added interest.

Library

The patients' library is situated in the occupational parlor. One new book is added each month. All current magazines are available from subscriptions or donations from local friends.

Religious Services

Both Catholic and United Church services are held at the hospital once monthly. These clergymen also preside at patients' funerals when required to do so.

Recreation and Entertainment

The bi-monthly picture shows continue to be eagerly anticipated and the most enjoyable form of entertainment. We were thrilled to accept the gift of a three-speed record player, which will be used for Sunday afternoon concerts and periodic dances. Special holidays are celebrated with a concert, dance or party. In the summer, a sports day is held and occasionally picnic suppers are served on the lawns. There is a radio and piano on the ward, and also in the Annex sitting room.

Staff Changes

One ward aide resigned December 1 because of ill health. The first cook and seamstress reached retirement age during the summer. All vacancies were filled promptly and satisfactorily.

Visitors

Periodic visits of inspection were made by Department of Public Health, Public Works, Fire Department, Electrical and Boiler inspectors. The Provincial Visiting Board made their annual visit.

Gardens and Grounds

The lawns and flower beds continue to show marked improvement due to the constant care. Further ornamental perennials and trees have been ordered for spring planting. The vegetable gardens yielded fresh vegetables throughout the summer and filled the root cellars with an abundant winter's supply.

Conclusion

The hospital patient capacity has been maintained throughout the year. The outside stucco was re-faced on the main building and the nurses' residence, which has greatly improved their appearance.

TABLE 1 MOVEMENT OF PATIENT POPULATION DURING 1956

	M	F	Т	M	F	Т
Y- Desidence Tonners 1 10EC					134	134
In Residence January 1, 1956					194	104
(a) Voluntary (M.D. Act)						
(b) Certificates		2	2			
(c) Warrant		_	_			
(d) Order						
(e) Transfers					3	3
(e) Transiers	****	1	Т		3	3
					137	137
RE-ADMISSIONS:						
(a) Voluntary		1	1			
(b) Certificates		ī	1			
(c) Warrant						
(d) Order						
(e) Transfers		****	****		2	າ
(c) Italisters					24	4
					139	139
DISCHARGES:					100	100
(a) As Recovered						
(b) As improved		2	2			
(c) As unimproved						
(d) Transferred to other hospitals		****				
(e) Eloped						
(f) Deported						
(g) As without Psychosis						
(h) Deaths		3	3	****	5	5
					134	134
In Residence December 31, 1956					704	404
In residence December 31, 1936				****	134	134

TABLE 2

DIAGNOSIS ON ADMISSION

		Male	Female	Total
300	SCHIZOPHRENIC DISORDERS		60	60
301	MANIC-DEPRESSIVE REACTIONS		5	5
303	PARANOIA AND PARANOID STATES		9	9
304	SENILE PSYCHOSIS		5	5
306 308	PSYCHOSIS WITH CEREBRAL ARTERIOSCLEROSIS PSYCHOSIS WITH OTHER DEMONSTRABLE		1	1
300	ETIOLOGY		4	
309	OTHER AND UNSPECIFIED PSYCHOSIS	****	4	4
325	MENTAL DEFICIENCY		0	8
025	GENERAL PARESIS OF INSANE		1	41
	Total		134	134

TABLE 3

DEATHS DURING THE YEAR 1956

			Time in Hospit		
Sex	Age	Years	Months	Days	Cause of Death
Female	78		9	7	(1) Acute Bronchopneumonia 4 days.(2) Cardio-Renal Failure 4 days.
Female	71	16	7	18	(1) Acute Bronchopneumonia 7 days.(2) Second degree Burns on buttocks, left foot and leg and right foot 24 days.
Female	42	19	7	11	(1) Congestive Heart failure 7 days. due to Auricular Fibrillation due to possible Rheumatic Fever.

Rosehaven, Camrose

R. R. MACLEAN, M.D.

Movement of Residents

On January 1, 1956, the resident population at Rosehaven numbered 415, of which 245 were men and 170 women. The total number in residence on December 31, 1956 was 505, 285 men and 220 women.

There were 209 patients admitted to Rosehaven during 1956. Of this number 107 were transferred from the Provincial Mental Hospital, Ponoka, 70 from the Provincial Mental Institute, Edmonton, 31 returned from leave of absence and one was admitted at the request of the Department of Public Welfare.

Separations from Rosehaven numbered 119 during the year, 76 of these were attributable to death, 8 were discharged, 2 transferred to the Provincial Mental Institute, Edmonton, and 33 were allowed on leave of absence. Two patients remained on leave at the year's end.

Admissions throughout the year were in the form of transfers from the mental institutions in Alberta. The completion of a new unit made 80 beds available. Other admissions filled beds made available by death or discharge.

Deaths were due to degenerative causes.

Accidents and Elopements

During the year, a number of residents received injuries either from accidental falls or interference from other residents. Some of these resulted in contusions or lacerations of a minor nature and required first aid care. In other instances, more extensive treatment was necessary and involved hospitalization following fractures or suturing of lacerations. There were 11 fractures, 8 lacerations requiring special care and 22 other injuries requiring X-ray investigation or bed care. 14 patients left the grounds without permission and all were returned, in 4 cases with police assistance.

General Health

The general health of the residents was considered satisfactory in view of the age of these individuals. A marked progressive mental and physical decline is apparent in many cases and an increasing amount of care is necessary.

An average of 40 patients required infirmary bed care each month. During the year, 32 patients required hospital care at St. Mary's General Hospital for surgical, orthopedic or diagnostic care. Out-patient work done at St. Mary's for Rosehaven, consisted of 79 blood counts, 48 urinalysis, 10 miscellaneous tests, 40 X-rays and 3 cast applications.

Medical care was supplied by a member of the Smith Clinic, Camrose.

Dental examinations and necessary dental care was done twice a year by the dentist from the Provincial Mental Institute, Edmonton. Emergency work was done by a local dentist.

Occupational Therapy

Residents are encouraged to do handiwork and are supplied with material. A few residents work in institutional service, 4 in the laundry, 3 in the kitchen. A group of male residents 12-16 worked on the grounds and at garden work in the summer.

Approximately 100 patients assisted with light housekeeping duties to some extent.

Religious Service

Weekly Protestant services were arranged by the local Ministerial Association. These were well attended. Roman Catholic services were held several times during the year.

Recreation

Walking parties and lawn groups were taken out every day when weather permitted. A movie film was shown each week with approximately 200 residents in attendance. Parties in the form of bingo, tea dances and cards were arranged once a month for the patients. Cards and games have been supplied to the wards. Television and radio sets have been made available for the majority of the patients. Car rides have been provided by a local organization and a Christmas concert. Ex-servicemen have been visited by the local branch of the Canadian Legion and several outings arranged for them.

Buildings

A new 80 bed unit was completed and officially opened this year. It provides infirmary care for both male and female patients.

Maintenance of the buildings has been very satisfactory and repairs have been done promptly.

Garden and Grounds

Extensive landscaping of area surrounding buildings erected in the past two years was done in 1956. Sidewalks, drives and a parking lot have been constructed.

Staff

The general health of the staff has been good. Vacancies on the staff establisment created by resignations have been readily filled in most instances.

Visitors

Regular visits were made to Rosehaven by the Director of Mental Health.

The Visiting Board made its annual visit.

At an official opening of the new buildings, the Ministers of Public Health and Public Works, together with Superintendents of the Mental Hospitals and local city representatives, were honoured guests.

TABLE 1 MOVEMENT OF POPULATION DURING 1956

MOVEMENT OF TOTOL	LILOIT	DOI	1110 -	.000		
	M	F	T	M	F	T
In Residence December 31, 1955ADMISSIONS:			•	245	170	415
From P.M.H., Ponoka	64	35	99			
From P.M.I., Edmonton	41	37	78			
Returned from Leave of Absence	7	24	31			
Admitted Public Welfare	1		1			
	113	96	209	113	96	209
				358	266	624
DISCHARGES:						
Formal discharges	8		8			
Transferred to P.M.I. Eloped	2		2			
On Leave of Absence	8	25	33			
Deaths	55	21	76			
	73	46	119	73	46	119
Total in Decidence December 21 1070						
Total in Residence December 31, 1956				285	220	505

TABLE 2

DIAGNOSIS ON ADMISSION

300 SCHIZOPHRENIC DISORDERS	
301 MANIC DEPRESSIVE REACTION	17
303 PARANOIA AND PARANOID STATES	47
304 SENILE PSYCHOSES	
306 PSYCHOSES WITH CEREBRAL ARTERIOSCLEROSIS	107
308 PSYCHOSES OF DEMONSTRABLE ETIOLOGY	
309 OTHER AND UNSPECIFIED PSYCHOSES	
PSYCHONEUROTIC DISORDERS	10
320 PATHOLOGICAL PERSONALITY	4
321 IMMATURE PERSONALITY	4
322 ALCOHOLISM (Exc. 307)	1
323 OTHER DRUG ADDICTION (Exc. 308.6)	3
295 MENTAL DEPLOYENCY (Fig. 200.1)	·- ±
325 MENTAL DEFICIENCY (Exc. 309.1) 024 TABES DORSALIS	7
	1
	3
	4
930 NOT PSYCHOTIC	20
Total	505

TABLE 3

CAUSES OF DEATH DURING 1956 ABRIDGED INTERNATIONAL CLASSIFICATION

18. 22. 25. 26. 31. 46.	Neoplasms, Malignant Vascular Diseases of Central Nervous System Chronic Rheumatic Heart Disease Arteriosclerotic and Degenerative Heart Disease Pneumonia All Other Diseases	Male 4 3 1 11 33 3	Female 2 1 3 13 2	Total 6 4 1 14 46 5
	Totals	55	21	76

TABLE 4

CLASSIFICATION OF DEATHS ACCORDING TO ORIGINAL PSYCHIATRIC DIAGNOSIS 1956

	Male	Female	Total
SCHIZOPHRENIC DISORDERS:			
Hepephrenic			
Catatonic	2	2	4
Paranoid	3		3
MANIC DEPRESSIVE REACTION	2	1	3
PARANOID AND PARANOID STATES	3	3	6
SENILE PSYCHOSIS	24	12	36
PSYCHOSIS WITH ARTERIOSCLEROSIS MENTAL DEFICIENCY	8	2	10
NOT DEVCTIONED	1		1
GENERAL DARALVEIG OF INCAME	6		6
GENERAL PARALYSIS OF INSANE PSYCHOSIS WITH OTHER BRAIN DISEASE	1	****	1
UNDIAGNOSED UNDIAGNOSED	1		1
OTTOTTOTTOTTO	4	1	5
	55	21	76
		-	

Institutions for Mental Defectives

THE PROVINCIAL TRAINING SCHOOL, RED DEER

DEERHOME, RED DEER

(A separate report for the Provincial Training School follows.)

The Provincial Training School, RED DEER, has an average population of 700 (394 males; 306 females). Approximately 400 are over the age of 15. The Training School operates at full patient capacity continuously, and has a comparatively small waiting list.

Emphasis is placed on school and vocational training, with a view to discharging as many of the trainees as possible back to the community. Some 62 children were admitted during the year, and a similar number was discharged. There were in addition five deaths.

The staff training program is designed to train the participants in the field of nursing and caring for Mental Defectives. The course is under somewhat constant revision as such indications arise on a basis of experience.

THE DEERHOME INSTITUTION for Adult Mental Defectives, to be transferred from existing Institutions, and direct admission from the community, is under construction. The utilities building, kitchen and two wards for approximately 150 patients each, are nearing completion. It is expected the Institution will open some time during 1957.

The need for such an institution arises from the fact that there are many adult defectives now occupying valuable beds in all the Mental Hospitals, as well as in the Provincial Training School, RED DEER.

The following is a table showing the Adult Defectives in the various Mental Hospitals and Training School:

INSTITUTION—1956	MENTAL DEFECTIVES			
	Male	Female	Total	
Provincial Mental Hospital, PONOKA Provincial Mental Institute, EDMONTON Provincial Auxiliary Mental Hospital, CLARESHOLM Provincial Auxiliary Mental Hospital, RAYMOND TOTAL ADULT MENTAL DEFECTIVES IN	136 211	77 121 30 47	213 332 30 47	
MENTAL HOSPITALS Provincial Training School, RED DEER (over 15) GRAND TOTAL	347 224 571	275 193 468	622 417 1039	

From the above table it will be seen that there are some 622 Adult Defectives in all the Mental Hospitals combined, and some 417 (over the age of 15) in the Training School. This indicates the need for accommodation for Adult Defectives, in an Institution apart from the Mental Hospitals and the Training School. If those in Mental Hospitals could be transferred in the near future, a working margin of beds in these Hospitals would be available for the immediate future.

Provincial Training School, Red Deer

L. J. LEVANN, M.D., Medical Superintendent

Herein is respectfully submitted the thirty-fifth Annual Report of the Provincial Training School, Red Deer, for the 1956 Calendar year.

In Residence, Admissions, Discharges, Deaths

The overall population has not varied, and throughout the year there have been approximately a 700 patient population in residence.

The number of discharges this year totalled 55, 31 males and 24 females. One patient was transferred to Provincial Mental Institute with a tuberculous infection of his chest and one patient was transferred to the Aberhart Memorial Sanatorium for tuberculosis treatment.

35 new admissions were taken into the School. There were 27 re-admissions, either from previous years or for short stays until work could be found for them outside. There were 5 deaths.

Applications for Admission

Applications for admission were approximately similar to those of last year. There was a total of 102 applications received.

Eugenics Board Visits, Sterilizations, Etc.

The Eugenics Board had trainees presented to them on five occasions during the year and the Visiting Board visited on one occasion. There were presented to the Eugenics Board 35 patients with a view towards sterilization. 26 trainees were sterilized, 16 males and 10 females. 14 of the cases presented have not yet been operated upon.

Staff Changes and Activities

The general staff situation has remained fairly quiescent. The medical work at the School keeps one Medical Officer busy but it is often necessary for the Medical Superintendent to involve himself in routine clinical procedures.

Health of Trainees and Staff

There has been no serious health problem in the School this year, apart from the minor injuries which occur whenever groups of children are playing together. The health of the population has been in keeping with that anticipated for defective children, who as a general rule, are not as healthy as the average population, due to their inability to cope for themselves or to take evasive action against any physical danger.

Immunizations were carried out against Diphtheria, Whooping Cough, Enteric Fevers, and all the children attending classroom activities received immunization with Salk Vaccine.

There were 3 cases of tuberculosis discovered during routine examinations. One abdominal, one cervical and one pulmonary.

Dental care has been maintained at a good acceptable standard and it is now possible to examine and treat each child's oral conditions approximately twice a year.

Training Program For Nurses and Attendants

This program has now become fairly standardized. Over a period of years changes have been made in order to effect the best type of training with the least amount of wastage of time in relation to tutors or nursing staff. Since the greatest drop-out occurs in the first year, subjects have been so arranged that the first year class is given practical lectures to give them an understanding of the trainees and of the work they will be expected to carry out. The second and third year lectures are oriented to give greater understanding of the clinical aspects of the work and also develop the individuals who will be capable of assuming senior responsibilities, along higher theoretical levels.

During the year a new plan was tried on the Wards. This entailed the reduction of student nursing staff and increasing domestic ward workers. This, in effect meant, that staff were employed for purely domestic duty on the ward for cleaning floors, walls, preliminary laundry work, scrubbing, etc. This has relieved nursing students of many of the less pleasant chores and they were able to concentrate, to a larger extent, on the care and attention of patient and trainee population. This plan has worked exceedingly well, inasmuch as it is possible to recruit individuals who are very efficient domestic workers and still lack the capacity to benefit from attending classes and at the same time make the course for the student nursing cadre more interesting and in keeping with that anticipated by them with regards to training.

Training Program for Trainees

The School was completed some four years ago and a great deal of impetus was given to the academic program. Before this time, because of inadequate accommodation and lack of space, little could be done to develop the academic training of trainees. The new school has provided an environment which has caused both instructors and children to put their best efforts into the program.

Six room schools, with an enrollment of 121 children, are being devoted to the teaching of academic work which would correspond to Grades I to VI in the Alberta Educational System. Because of the limited ability of the children most of the rooms deal with aspects of education up to the Grade III level, however, the two senior rooms are helping many trainees to take advantage of work in the basic subjects up to the end of Grade VI and, in individual cases, even some work in Grade VII.

The main emphasis in the curriculum is placed on reading, writing and arithmetic, as well as basic information and social knowledge. As there is no authoritative curriculum for the teaching of retarded children available on the North American Continent it is important for the Educational Staff to spend time each year in preparing and revising a curriculum to meet the changing needs of the students. This curriculum is prepared on the basis of teaching experience during the year, and incorporates many new ideas that have been advanced in educational research.

At all times the need of the individual is taken into consideration, with the curriculum being made as practical as possible in terms of what will be of use to the child in his future life.

Monthly teachers' meetings are held to discuss individual trainee progress and teaching techniques. A workshop seminar of teachers of retarded children was held this year at the School and teachers from Alberta generally were represented. It is felt much will be gained by an exchange of ideas of people engaged in this field of work. Since the meeting proved successful, a further conference has been scheduled, when it is planned to hold a workshop on teaching methods.

As the retarded child learns better by example, emphasis has been placed on audio-visual techniques in the class room, using films and film strips. A concerted effort has been made during the year to build up a better library for both free reading and reference books for the children. A reference library is being set up for the teachers.

With the development of vocational facilities at the Provincial Training School, the senior rooms are now operating on a shift basis, having one class in the morning and another class in the afternoon. The students in these classes are continuing with their academic training, and at the same time receiving instruction in agriculture, woodwork, cooking and sewing, with the various departments working together on a close basis.

Continued efforts are being made to develop the trainees socially at school, with such activities as assembly programs and Christmas concerts being very helpful.

Shopping excursions to the down town area have proved most valuable in developing a sense of monetary values, individual responsibility and also in maintaining good contact with the community.

Sense Training

The two sense training rooms continue to be operated on a multiple class per day basis, 120 children in the past school year have attended.

It has been found that some children are incapable of benefitting from more than an hour or two of instruction each day, and that by setting the sense training classes at a maximum of four hours a day per child, more children can be accommodated. It continues to be difficult to find educational materials and aids for the Sense Training Instructresses, however, through the research and ingenuity of these instructresses, together with the

co-operation of various school departments, many helpful class-room aids have been evolved.

Recreation Activities

The recreational facilities at the Training School continue to improve with the acquisition of new playground space and new equipment.

A good deal of emphasis is placed on socialization of the child in recreational classes. In the past year greater effort has been made to organize group activities for the older children, and the recreational staff have been successful in developing hockey and baseball leagues. Many individual games, such as badminton and table tennis, are also played.

As there is this year a qualified swimming instructor and life guard on the recreational staff many children have learned to swim, or have improved their swimming techniques. 499 trainees attended the swimming activities during the year.

Many excursions were held, either on foot or on bicycle, to acquaint children with the surrounding countryside, making available for them courses of practical nature study.

The School had its own Skating Rink during the winter months and it as well had its own Sports Field Day.

Social activities, including dances, wiener roasts, parties, amateur hours, and creative programs were held, with the trainees helping to organize these efforts. Square, tap and round dancing have been done more extensively and the trainees seem to enjoy these activities.

The new facilities of the Randall R. MacLean Cottage at Gull Lake have been a great help to the Recreation Staff in the development of the summer program.

One of the main problems in the past has been the obtaining of qualified staff members for the Recreation Department. Fortunately it appears that the situation is now improving as it will be possible to have members of the Recreation Staff who have taken the summer course in Physical Education offered at Red Deer on the staff.

Occupational Therapy

There is an average daily attendance of 98 trainees taking part in sewing classes and an average of 18 girls each week attending Domestic Science classes.

This department has been producing very satisfactory results. Weaving has made important strides and ceramic work has been carried out as well as the many other activities which are provided in this department for the trainees.

With the acquisition of additional equipment the Vocational Training Program has taken marked impetus. There is a tremendous improvement in the woodworking department and, many of the trainee population, after an initial period of apprenticeship are now working with good hard woods. They are engaged in the

lathing, planing and assembling of furniture of a very high calibre and are showing great manipulative skill in this respect. The finished product which is being turned out is professional in appearance and will have ready sale. It is also demonstrating clearly the extent to which defective populations may be trained and the fact that with adequate training, they are able to be discharged and self-supporting.

Average daily attendance at woodworking classes is 30 trainees. 62 different boys attend these classes during the week.

Farm Instructor

Farm instruction is still being carried on as in previous years to prepare the dischargable male population for work on farms. This form of training has proved its success over recent years and this year, as in past years, there is a greater demand for population trained at the School amongst the farm community than there are trained trainees to discharge. This reputation which the School has acquired in relation to its trained patients is an enviable one duplicated no where else in Canada.

Shoemaker

There are presently a group of boys assisting in the repair of shoes, giving them an additional therapy activity. This type of therapy has been very helpful in providing useful occupation for non-ambulant children.

Extra Mural Activities

The senior staff of the School continue to give addresses to interested organizations. There are now a total of 5 television sets at the School which have been donated by various public spirited organizations.

The Guidance Clinic is operating as during previous years, seeing and treating a greater volume of patients each year. Its work will be incorporated into the annual report of the Red Deer Guidance Clinic.

The Parent School Organization has become a constructive friendly group, making known to many interested areas in the Province the sympathetic and progressive attitude that has developed in Alberta under the direction of the Honorable Dr. W. W. Cross, Minister of Health, in the field of Mental Deficiency, its treatment and research.

During the year there were 377 trainees who went home for holidays. There were 143 trainees who went home for Christmas and 194 who went home for their summer vacations. 40 trainees went on holidays for other occasions. There were only 18 trainees who went home for Christmas holidays in 1955.

Research and Original Investigations

Research Projects have continued at this School as during previous years. This year three original papers were published

as follow-ups of work carried out during the past six years. They were:

- 1. "Propfschizophrenia: A Physiological and Clinical Assay"—Alberta Medical Bulletin (1956)
- 2. "Physiological Correlates of Intelligence" Canadian Psychiatric Association Journal, 1:3 (1956)
- 3. "Results of Institutional Treatment of Juvenile Mental Defectives"—Canadian Medical Association Journal (1956)

New Construction

During the year 1956 construction was commenced on the Clinical Building and the Stores Addition by the Buildings Branch of the Department of Public Works, and on the new Infirmary Ward. It is expected that these three projects will be completed during the coming year. The Mechanical Work Shop and Paint Shop Building was completed and is now occupied. It provides well lighted and spacious quarters for the Chief Engineer, his Staff and the Painters of the Public Works Maintenance Branch.

By the way of major renovations the Buildings Branch almost completed the interior renovation of Ward IV and started on the exterior renovation of the old Ward IX. The demolition of the old Power House late in the year greatly improved the appearance of the grounds in that area. Work was also begun on the construction of a new Incinerator.

Four additional Street Lights were installed and a start was made on the replacement of the old Steam Return Lines in the Main Building Heating System by the Mechanical Branch of the Department of Public Works.

Stores

The operation of this Department was carried on quite successfully and there were few difficulties encountered in the purchasing of Stores items during the past year. The store now carries an average inventory of approximately \$70,000.00, making available to the institution a good variety of food, clothing, drugs, and other supplies. The addition of the new Stores Building, now under construction, and the installation of further refrigeration units will greatly increase the value and efficiency of this Department.

Kitchen and Dining Room

The situation in these departments has not changed a great deal from that of the previous year. The position of Dietitian is still vacant but the work the encumbent of this position would normally do was carried on quite successfully by the Chef and his assistant. The meals provided for trainees and staff were both nourishing and tasteful with a fairly good variety of menus provided throughout the year.

Laundry and Linen Repair Room

There has been a 14% increase in the number of articles laundered for the past year over that of the previous year. Two new Washing Machines are currently being installed to replace two old wooden belt-driven machines, which should increase the efficiency of the wash floor equipment. The new set of Presses purchased a year ago have now been in operation for some time and have proven useful in preventing delays in that part of the laundry operations.

An additional New Tailor Model Sewing Machine has been installed in the Linen Repair Room. This installation was made necessary by the further increase in the amount of work of this department due to increase in patient population. Thirteen thousand new articles were manufactured during the past year besides the regular work of mending carried on continuously.

The central linen supply in the Laundry was expanded and now includes sheets, pillow cases, bath towels, tea towels and diapers. This improved the service considerably in that the Wards were able to pick up adequate daily supplies of these items at all times without having to wait for their particular items to be laundered.

Farm and Garden

This department has experienced an average crop year, resulting in a total vegetable crop of approximately 285 tons and a farm crop of 4,700 bushels of grain and 115 tons of hay and greenfeed. The root cellar storage space was filled to capacity and the vegetables stored were of a very good quality. The turnip yield was exceptionally good, with one large turnip selected weighing over 23 pounds; establishing an unofficial record for this part of the Province. The Greenhouse was used on a year round basis and produced approximately 40,000 flowering plants.

The chicken flock was changed over from the usual Leghorns to the New Hampshire breed, these being slightly heavier birds, thereby providing more and better table meat. Egg production averaged just over 60% for this flock resulting in approximately 6,700 dozen eggs being delivered to the Kitchen.

Ninety-seven finished hogs were slaughtered during the year, resulting in 15,000 pounds of pork being delivered to Cold Storage Lockers. The raising of hogs on the Institutional Farm has proven quite successful in that all swill from the Kitchen and Wards is being utilized and that in some cases only a five month period has been required for the finishing of these hogs. This could be attributed to the fact that while the hogs are under 100 pounds in weight they are given Antibiotics such as Terramycin and Dihydro-Streptomycin Sulphate as well as a Vitamin A, D, E and K preparation (Fish Oil). Also the richness of the swill food content helps to bring them along faster than usual. All pork produced is eventually delivered to the kitchen and consumed at the Institution.

An average of 25 cows were milked continuously throughout the year producing a total of 316,000 pounds of milk, which was pasteurized and delivered to the Kitchen. The herd average was considered quite good in that the milk production was 19% above breed class average and the butterfat content of this milk tested at 23% above breed class average. During the month of August one of the two-year-old registered Holsteins was given the highest listing in Western Canada in milk butterfat content with a rating of 50% above breed class average. New cooling equipment was installed in the Pasteurizer, thereby providing the institution with a modern and up-to-date Pasteurizing Plant.

The landscaping and maintenance of the institutional grounds was carried on entirely by the farm and garden staff. Seven acres of new lawns were seeded, bringing the total lawn area to approximately 23 acres. Fourteen hundred new trees and shrubs were planted and some old decaying trees were removed. A Rock Garden was built in front of the Main Building and a special effort was made to beautify the ground by planting a good variety of flowers in all flower beds. The School grounds are becoming a beauty spot in Red Deer and are being visited by many people from all over the Province, indicating the care and efficiency of horticulture at a Provincial Institution. Many people have expressed their amazement and approval of this activity at the School. A plastic hose sprinkler system was pur-chased and used for the watering of lawns and flower beds during the summer months. During the winter months a program of snow removal was carried on by the farm and garden staff and additional snow scoops and blades were purchased for the farm tractors to facilitate this work.

MAJOR ITEMS OF EQUIPMENT FURNISHINGS PURCHASED IN 1956

WARDS:

45 Beds 18 Arm Chairs 12 Bedside Tables 24 Straight Chairs

NURSES' RESIDENCE:

6 Cribs 1 Floor Polisher

SCHOOL: RECREATION HALL: 1 Washing Machine Drapes and Rods for 2nd Floor 14 Desk-Chair Sets

OCCUPATIONAL THERAPY:

STORES: SCHOOL OF NURSING: 14 Desk-Chair Sets
Cinemascope Screen
Projector Lens Adapter
3 Looms
2 Lathes
1 Shoe Patcher
1 Panel Truck
1 Human Skeleton
1 Anatomical Dummy

Acknowledgments

It would not be fitting to terminate this Annual Report without expressing appreciation for the help and co-operation which has been given the Administration by the Nursing Staff, Business Office Staff and Ancillary Services. One is particularly mindful of the sagacious counselling and fund of rich experience which has been made available by Dr. Randall R. MacLean, Director, Division of Mental Health, whenever this was asked for and to the Honorable Dr. W. W. Cross, Minister of Health, for his understanding and appreciation of the School's needs and his responsiveness towards its strivings.

TABLE I

MOVEMENT OF FEEBLEMINDED POPULATION

	MO A DIMETAL OF LEADING						
		M	F	T	M	F	Т
De	fectives on books of Institution as at 1st January, 1956, in Provincial Training School, Red Deer, Alberta				388	310	698
ΑI	OMISSIONS:						
1.	First Admissions-voluntary	23	12	35			
2.	Re-admissions	17	10	27			
3.	Transfers						
	Total number of admissions	40	22	62	40	22	62
	TOTAL NUMBER OF DEFECTIVES ON						
	THE BOOKS DURING 1956				428	332	760
OU	TGOING:						
1.	Discharges Transfers—	31	24	56			
۵.	1 Male to P.M.I.,						
	1Female to Aberhart Memorial San	1	1	2 5			
3.	Deaths	4	1	5 T	3.5	- 13	m
	Total number of outgoing	M 36	F 26	62	M 36	F 26	62
	Tota: number of outgoing	00	20	02			
	DEPERTURES ON DOOMS OF THE				_		
	DEFECTIVES ON BOOKS OF THE INSTITUTION, 31st DECEMBER, 1956				392	306	698
	and the first of the control of the				002	000	000

AGE OF RESIDENT POPULATION CLASSIFIED WITH REFERENCE TO MENTAL STATUS TABLE II

	T	101 101 101 101 101 101 101 101 101 101	869
TOTALS	[Zi	868 F 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	306
Ē	M	0001 4701 7009 7009 7009 7009 7009 7009	392
	T	H40	00
BORDERLINE	FI	T 0	ಣ
BOR	M	* #	<u>10</u>
	[-	125222 1012222	169
MORON	[II.	75880 H H H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	07
No.	M	116 144 144 144 144 144 144 144 144 144	
	T	22110112248	347
IMBECILE	ī	1288824 o 14 4 w	144
IN	M	100 4 100 100 100 11 11 11 11 11 11 11 11 11	203
	T	:888281211 :888281211	174
IDIOT	ţz.	: NOUNA 4 FOUNTH	-68
	M	84822 C 0 4 6	82
	AGE GROUP	0 - 4 110 - 14 110 -	TOTALS

TABLE III
MENTAL STATUS OF FIRST ADMISSIONS, READMISSIONS AND TRANSFERS

Mental Status	A	First dmissi		Re	admis	sions	T	ransfe	rs		Totals		
	M	F	T	М	F	Т	M	F	Т	M	F	Т	
IDIOT	2	2	4							2 10	2 10	20	
MBECILE MORON BORDERLINE	10	3	14 13 4	14	7	21				24 4	10	31	
TOTALS	23	12	35	17	10	27				40	22	62	

TABLE IV

AGE GROUP OF FIRST ADMISSIONS, READMISSIONS AND TRANSFERS

Age Group	Ad	First missio	ns	Re-	admiss	ions	Т	ransfe	rs	Totals		
	M	F	Т	M	F	Т	M	F	T	M	F	Т
5 - 9	10	7	17		1	1				10	8	18
10 - 14	10	1	11	****		****				10	1	11
15 - 19	3	4	7	5	1	6				8	5	13
20 - 24		****		4	2	6		****		4	2	6
25 - 29				8	2	10				8	2	10
30 - 34			****		3	3	****				3	3
5 - 39			****		1	1			****		1	1
10 - 44		****	****	****								
5 - 49				****		****						****
50 - 54			****	****				****				****
TOTALS	23	12	35	17	10	27		****		40	22	62

TABLE V DEATHS CLASSIFIED WITH REFERENCE TO CAUSE OF DEATH, AGE, MENTAL STATUS, YEARS IN RESIDENCE

Cause of Death	Age	Idiot		Imbecile		Moron			Years in		
- Death	Age	M	F	Т	M	F	Т	M	F	Т	Residence
22. Vascular lesions affecting Central	12/11							1		1	8½ mos.
Nervous System	43/5	••••					****	1		1	13/23 days
7. Other diseases of Heart	51		1	1					****		36/8
1. Pneumonia	9/1 18/2	1		1	1		1				1/7 9/10
TOTALS		1	1	2	1		1	2		2	61/10

TABLE VI DENTAL CARE

Examinations	1.450
General Anaesthetics	146
Extractions	276
Fillings A G	88
rinings, Plastic	10
Prophylaxis	16
Gingivectomies	12
X-Rays	7
Dentures—	- 1
Complete	3
Partial	1
***************************************	1

The Eugenics Board

The Eugenics Board for the Province of Alberta held ten meetings during the year 1956. All of these meetings were held at the Provincial Mental Hospital, PONOKA, and the Provincial Training School, RED DEER. The dates of the meetings held during 1956 were as follows:

January 27th, 1956 - The Provincial Mental Hospital, PONOKA

January 27th, 1956 - The Provincial Training School, RED DEER

April 20th, 1956 - - The Provincial Mental Hospital, PONOKA

April 20th, 1956 - - The Provincial Training School, RED DEER

June 8th, 1956 - - - The Provincial Mental Hospital, PONOKA

June 8th, 1956 - - - The Provincial Training School, RED DEER

September 21st, 1956 - The Provincial Mental Hospital, PONOKA

September 21st, 1956 - The Provincial Mental Hospital, PONOKA (for the consideration of Provincial Training School Cases)

November 30th, 1956 - The Provincial Mental Hospital PONOKA

November 30th, 1956 - The Provincial Training School, RED DEER

The Board considered a total of 74 cases, one of which had been presented previously, and one of which was deferred. Of the 72 cases which were passed by the Board in accordance with the Sexual Sterilization Act (1937-C.47, S.5), 38 were male and 34 female. Of this number, 19 were passed subject to their own consent.

Of the 72 cases passed by the Board during the year, 50 had been first examined at a Provincial Guidance Clinic, although some of these had been institutionalized prior to presentation. This group of 50 cases was made up of 28 males and 22 females.

Operations

Operations were performed on 46 cases during the year, 22 being male and 24 female. All of these operations were performed at the Provincial Mental Hospital, PONOKA.

The surgical operations mentioned above were performed by the Surgical Consultants, Dr. J. W. Richardson, of CALGARY, or Dr. J. Ross Vant, of EDMONTON. Mrs. R. B. Gunn, member of the Board, resigned on March 31st, 1956, and was replaced by Mrs. C. T. Armstrong.

As in previous years, the Eugenics Board wishes to express its sincere appreciation and thanks to the Director, Division of Mental Health, to the Medical Superintendents and their respective staffs, and to the Guidance Clinics, for their cooperation in connection with the work of the Board.

A tabular summary of the work of the Provincial Eugenics Board to December 31st, 1956, is appended.

CASES PRESENTED AND PASSED (To December 31st, 1956)

	YEA	ARLY TO	TALS	CUMUI	LATIVE	TOTALS
Years	Male	Female	Totals	Male	Female	Totals
1929-1933	87	201	288	87	201	288
1934-1938	557	438	995	644	639	1283
1939-1943	339	299	638	983	938	1921
1944	56	73	129	1039	1011	2050
1945	54	64	118	1093	1075	2168
1946	52	53	105	1145	1128	2273
1947	38	53	91	1183	1181	2364
1948	37	68	105	1220	1249	2469
1949	52	57	109	1272	1306	2578
1950	37	60	97	1309	1366	2675
1951	34	48	82	1343	1414	2757
1952	21	36	57	1364	1450	2814
1953	43	38	81	1407	1488	2895
1954	41	40	81	1448	1528	2976
1955	61	48	109	1509	1576	3085
1956	38	34	72	1547	1610	3157

OPERATIONS ONLY (To December 31st, 1956)

Years	Male	Female	Totals	Male	Female	Totals
1929-1933	48	158	206	48	158	206
1934-1938	198	240	438	246	398	644
1939-1943	122	151	273	368	549	917
1944	13	27	40	381	576	957
1945	18	29	47	399	005	1004
1946	24	31	55	423	636	1059
1947	16	15	31	439	651	1090
1948	16	22	38	455	673	1128
1949	20	27	47	475	700	1175
1950	21	46	67	496	746	1242
1951	16	41	57	512	787	1299
1952	6	18	24	518	805	1323
1953	21	30	51	539	835	1374
1954	37	25	62	576	860	1436
1955	45	25	70	621	885	1506
1956	22	24	46	643	909	1552

Blood Transfusion Service

D. I. BUCHANAN, M.D., D.P.H., Edmonton

E. NATION, M.B., M.R.C.P., Calgary

In Alberta, the Blood Donor Service is operated by agreement. The Department of Public Health has provided laboratories at Edmonton and Calgary including light, heat and janitor service. The Canadian Red Cross Society provides the technical equipment and technical staff and takes care of blood procurement and distribution.

Blood Donations

The total number of blood donations received from voluntary donors during 1956 amounted to 54,116, as compared to 51,156 in 1955, and 54,330 in 1954.

The number of bottles collected in the north and south is shown in Table 1 below.

TABLE 1

BOTTLES COLLECTED, 1956

Jan. 1 to Dec. 31 (inclusive) Northern Alberta Southern Alberta	Permanent and City Mobiles 9,938 12,246	++	Field Mobile Clinics 16,179 15,753	-	26,117 27,999
Total	22,184	+	31,932		54,116

Blood Transfusions

247,272 five hundred cc. bottles of blood have been administered to a total of 138,473 patients in this area between July, 1947 and December 31, 1956. At the present time the average is approximately two bottles of blood per patient requiring transfusions. During 1956, 33,025 x 500 ccs. were administered to patients in hospitals supplied from the Edmonton and Calgary depots, the Edmonton depot being responsible for 17,197 and the Calgary depot for 15,828 of these blood transfusions. 16,903 patients received these transfusions, 9,333 in the north and 7,570 in the south.

Plasma for Fractionation Products

402 pools of liquid plasma were shipped from Edmonton and 447 pools from Calgary to the Connaught Laboratories during 1956; i.e., a total of 849 four-litre flasks for the whole 12-month period under review.

Rh and Other Blood Group Investigations (Maternity Cases, etc.)

38,326 specimens were investigated in the two Alberta laboratories during 1956. 24,030 were investigated in the Edmonton depot laboratories in 1956, as compared to 21,626 during 1955. In Calgary, 14,296 antenatal and other Rh samples were tested, as compared to 13,413 in the previous year.

The testing and reporting of such specimens is now a major part of our work and represents many hours of work.

The estimated cost to the Red Cross is \$6.00 per bottle of blood collected, a very low figure indeed when one considers that \$20.00 to \$30.00 per bottle is commonly charged by hospitals on the North American continent where the Red Cross does not collect blood donations and supply transfusions.

Although the highest concentration of the population of Canada is to be found in Ontario and Quebec, recent statistics have shown that the most marked increases in population during the past five years have taken place in the two most westerly provinces, the rate of increase being reported as approximately 20% in British Columbia and 19.5% in Alberta. The demands on the Blood Transfusion Service are proportionately great, and the growth in the general population is reflected by the very considerable increase in the Rh and other blood group investigations that we perform.









PART II

ANNUAL REPORT

OF THE

Division of Hospital and Medical Services

OF THE

DEPARTMENT OF PUBLIC HEALTH PROVINCE OF ALBERTA

1956

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INTRODUCTION

The following report covers the activities and services provided through the Division of Hospital and Medical Services. A great amount of effort and emphasis is placed on the provision of hospitalization services through the various programs. These programs are the Provincial-Municipal Hospitalization Plan, the Maternity Hospitalization Program, the Social Service Recipients Hospitalization Program, the Poliomyelitis Program. As an adjunct to the operation of the foregoing hospitalization services there is the supervision and inspection of the approved hospitals in the province as well as the assistance in planning additions and new hospitals and making construction grants available for hospitals.

A Nursing Aide School is operated in Calgary to help hospitals in providing bedside nursing for their patients; a nurse education program is provided so that student nurses can receive their education with less financial outlay; a Laboratory and X-ray School is operated to provide technicians for smaller hospitals.

Other services provided through this Division include medical, dental, optical services, etc., for social services recipients, surgical and medical care for poliomyelitis cases.

PROVINCIAL FINANCIAL SUMMARY

A.

Total expenditures by the province for various hospitalization programs during the calendar year 1956 amounted to \$12,896,652.64 indicating an increase of \$1,531,650.95 (13.5%) over the preceding year. More than sixty percent (61.2%) of this increase in expenditures went to the Provincial-Municipal Hospitalization Plan. Provincial expenditures on poliomyelitis hospitalization and orthopaedic hospitalization grants, however, continued to decrease. Expenditures in 1956 on these two items declined by 10.5% and 1.7% respectively over the 1955 figures.

The break-down of the expenditures was as follows:

Provincial-Municipal Hospitalization Plan Maternity Hospitalization Social Service Recipients (Pension Groups) Hospitalization Poliomyelitis Hospitalization Per Diem Hospitalization Grant Extra Per Diem Hospitalization Grant Orthopaedic Hospitalization Grant Psychiatric Hospitalization Grant in General Hospitalis Outpost Hospital Grants	\$ 4,480,968.34 2,663,653.30 2,325,017.90 503,413.10 2,020,814.40 769,970.00 48,139.20 65,359.00 19,317.40
Sub Total *Mental Hospitalization *Tuberculosis Hospitalization *Cancer Hospitalization	5,716,948.08 1,672,037.83
Total	\$20,338,300.05

^{*} These items are not administered through the Division of Hospital and Medical Services and will not appear further in this report.

Additional expenditures by the province on health services made through the Division of Hospital and Medical Services for the same period were the following:

Social Service Recipients (Medical, Poliomyelitis (Medical, Surgical, e Maternity (Confinement at Home) Nurses' Education Program Hospital Construction Grants (Fisc	etc.)		835,356.59 136,622.59 9,280.00 146,100.00 888,944.38
Total		-	2.016.303.56

A year by year comparison of total provincial expenditures for the various hospitalization plans during the past seven years, 1950-1956, is presented in graphic form in Diagram No. 1.

The amount spent per capita of population was \$11.48 in 1956. The comparable figures in 1955, 1954, and 1951 were \$10.66, \$8.87 and \$3.18 respectively. Since 1951, provincial per capita expenditure for hospitalization has increased more than three and one-half times. The causes for this increase can be attributed to higher rates paid to hospitals per patient day, an increase in special services and total days, and to some extent increased hospital costs.

Effective April 1, 1956, eight approved hospitals which were considered Group D hospitals in 1955 became Group C hospitals, thus increasing the rate of payment for the first twenty days of a pensioner's hospitalization from \$8.45 to \$8.65, and the per case payment on behalf of maternity patients was also increased from \$17.00 to \$21.00.

ALBERTA APPROVED HOSPITALS

В.

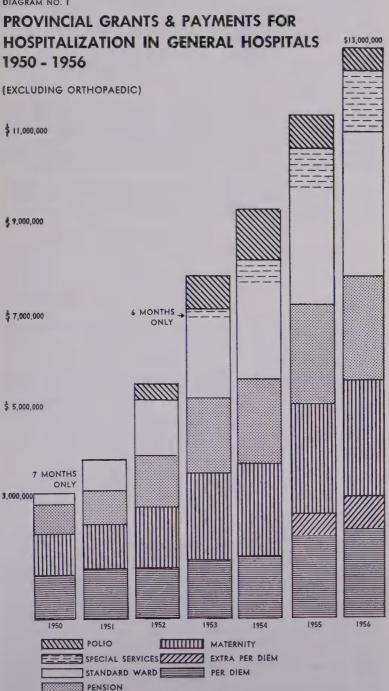
Approved hospitals in the province are classified into five groups according to their facilities and the services they are capable of providing. Group A hospitals comprise the six large hospitals in the cities of Edmonton and Calgary. Group B hospitals are mainly located in the small cities. The four Group E hospitals are outpost hospitals. They receive a special outpost grant of \$1.80 per adult day and \$1.30 per child day. Approved hospitals are active treatment public hospitals which receive a per diem allowance on behalf of all residents hospitalized in them. Not included under approved hospitals are chronic hospitals, mental hospitals, tuberculosis sanatoria, private hospitals and nursing homes. The hospital statistics presented in this report pertain to approved hospitals only and do not include these latter institutions.

In 1956 Devon Health Centre became an approved hospital, thereby increasing the total number of approved hospitals in the province to 100. In 1956, these hospitals were distributed among the five hospital groups as follows:

Group A	6
Group B	8
Group C	44
Group D	37*
Group E	4
Unclassified	1
Total	100

Hythe sub-hospital of Grande Prairie Municipal Hospital and the isolation hospitals at Edmonton and Calgary are not included.

DIAGRAM NO. 1



At December 31, 1956, these hospitals were owned and operated as follows:

Municipal Municipally owned and Community Denominational Industrial Service Group	56 5 35 1 2
Provincial	ĩ
Total	100

The number of municipally owned and operated hospitals in the province has increased to 56. The Municipal Hospital District purchased the denominational Smoky Lake Hospital. The Devon Health Centre became an approved hospital in June, 1956. One of the hospitals—i.e. Lloydminster Municipal (Lloydminster Union) Hospital, is located in the province of Saskatchewan.

The above hospitals were studied, for statistical purposes, according to their grouping. The patient days in 1956 were distributed among these hospital groups in the following manner:

	Adults and Children	Newborn
Group A Group B Group C Group D Group E	$\begin{array}{c} 49.4\% \\ 14.2\% \\ 25.9\% \\ 9.3\% \\ 1.2\% \end{array}$	51.2% 12.4% 26.8% 8.5% 1.1%
Total	100.0%	100.0%

The study of the distribution of patient days among the hospital groups reveals that approximately half of the adult and children days, and more than half of the newborn days, were in Group A hospitals. More than one-quarter were in Group C hospitals. The percentage distribution of patient days in Group A hospitals in 1956 has increased over 1955 due to the fact that these hospitals are situated in urban centres where population increase is concentrated. Group C hospitals, however, show a higher percentage increase in patient days mainly because 8 Group D hospitals were reclassified into Group C due to the improvement in their hospital facilities and services.

Graphic presentation of the percentage distribution of patient days by hospital groups 1953-1956 is shown in Diagram 2.

1. Financial Operations

Total cost of operating all approved hospitals in the province in 1956 was \$28,684,797.00 including depreciation and capital interest, or \$26,043,661.00 excluding depreciation and capital interest. The total operating revenue for the same period was \$26,446,028.00. Since depreciation, debenture principal and capital interest are not included in provincial calculations of hospital operating costs for assessing the overall financial position of hospitals, the cost figure not including these items is used in comparison with operating revenue. The expenditure figure for 1956 shows an increase of \$2,028,192 (8.4%) over the 1955 figure while the revenue figure shows an increase of only \$1,422,210 (5.7%). The slower rate of increase of hospital revenue is partly due to the new increases in hospital rates not coming into effect

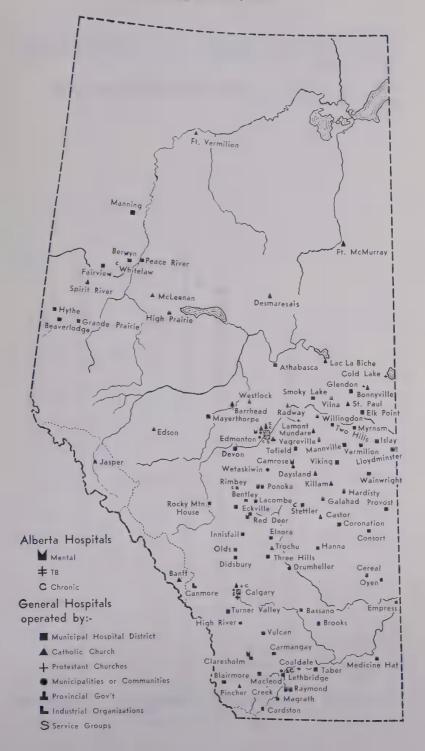


DIAGRAM NO. 2

DISTRIBUTION OF PATIENT DAYS BY HOSPITAL GROUP 1953 - 1956

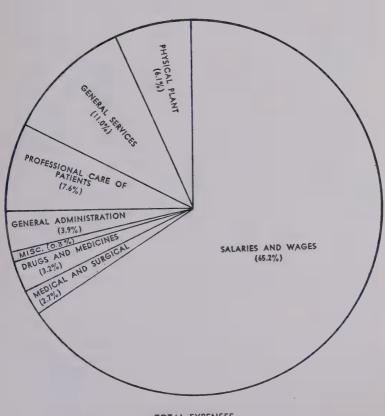
(EXCLUDING NEWBORN, DVA DIVISION OF UNIVERSITY HOSPITAL AND CALGARY ALBERTA RED CROSS)

GROUP A (47.2%)	GROUP A (49.3%)	GROUP A (48.9%)	GROUP A (49.4%)
GROUP B (13.9%)	Group 8 (13.7%)	GROUP 1 (14.0%)	GROUP B (14.2%)
GROUP C (23.3%)	GROUP C (22.3%)	GROUP C (21.9%)	GROUP C (25.9%)
GROUP D (14.5%)	GROUP E (1.3%)	GROUP D (14.0%)	GROUP D (9.3%) GROUP(E (1.2%)
1953	1954	1955	1956

DIAGRAM No. 3

DISTRIBUTION OF OPERATING EXPENDITURES BY DEPARTMENTS, 1956

(EXCLUDING DEPRECIATION AND CAPITAL INTEREST)



TOTAL EXPENSES \$26,043,661.00

until April 1, and partly to the rise of costs per patient day. The study of the following table reveals that cost per patient day in 1956 rose by 81 cents from that of 1955 while revenue per patient day rose by 49 cents.

TABLE I — FINANCIAL OPERATIONS OF APPROVED HOSPITALS*

	1956	1955	1954	1953	1952	1951	1950
Total Revenue for operating purposes (in \$1,000's) Total Expenditures (in \$1,000's) including depreciation and	26,446	25,024	24,029	21,472	17,340	14,677	13,395
capital interest Excluding depreciation and	28,685	26,071	24,016	20,947	17,188	15,061	13,267
capital interest Total Cost of Salaries and Wages Revenue per patient day† Expenditure per patient day†	26,044 16,986 13.18	24,005 14,986 12.69	13,779 12.57	11,432 11.84	9,032 10.29	7,486 9.04	6,463 8.63
including depreciation and capital interest Excluding depreciation and	14.30	13.22	12.56	11.55	10.20	9.27	8.71
capital interest	12.98	12.17					

^{* 1955} represents the first year that standardized accounting procedures were effective through most of the approved hospitals in the province, hence, while comparisons may be made with previous years, they can only be approximate since the figures shown under previous years would likely be somewhat different if these new procedures existed

A large part of the rise in costs per patient day is due to increases in salaries and wages and additions to hospital staffs. In comparing the 1956 figure for salaries and wages with the corresponding 1955 figure, however, the change in the procedure of calculating perquisites should be taken into consideration. The procedure in previous years has been to reduce salaries and wages by the amount of perquisites included in general services. For the 1956 annual report, expenditures for general services were reduced by the amount of perquisites included in salaries and wages. This accounts for the apparent decrease in the total expenditure for general services in 1956 and the sharp rise in salaries and wages. Salaries and wages, excluding perquisites for more significant comparison with 1955, increased 8.9% in 1956 over the preceding year and absorbed 63.9% of the total increase in net expenditure.

Diagram 3 shows the percentage distribution of total hospital operating expenditures by department in 1956. Of the total expenditures, 65.2% made up the salaries and wages in payment to hospital staff. This percentage varies between hospitals from 41.1% in Drumheller Municipal to 77.6% in the Calgary Red Cross.

2. Hospital Staff

The total staff in approved hospitals increased from 8,968 in 1955 to 9,304 in 1956, an increase of 336. This increase was smaller, however, than it was during the previous year when an increase of 508 in hospital staff was experienced. The total staff in provincial approved hospitals has increased by 126% since 1945 when a total staff of 4,107 was reported. A considerable decline of 184 (or 12.8%) occurred in the number of student nurses in approved hospitals in 1956 as compared to 1955. There was also a slight decrease in the number of interns. The highest

[†] Adult and Children plus 1/3 newborn.

increase in the hospital staff in 1956 occurred in the number of graduate nurses. The following table is a breakdown of hospital staff in 1956 and 1955, showing the change in staff between the two years:

TABLE II
HOSPITAL STAFF—FULL TIME AND PART TIME, 1955 & 1956

	1956*	1955*	Inc. (+) Dec. (—)
Nurses, Graduate Student Nursing Aides, Certified Trainees Orderlies Interns Salaried Doctors Technicians Dietitians All Others	2,074 1,253 686 93 208 123 55 337 77 4,398	1,895 1,437 653 13 191 127 44 287 47 4.274	+179 -184 $+33$ $+80$ $+17$ -4 $+11$ -50 $+30$ -124
Total Staff	9,304	8,968	+336

^{*} Hospital Staff as of December 31st.

3. Hospital Construction

During the calendar year 1956 the following hospital additions were completed for a total net increase in acute treatment capacity of 65 beds and 27 bassinets:

	Ne	t Increase*
	Beds	Bassinets
Beaverlodge Municipal Devon Health Centre Spirit River. Holy Cross Two Hills, Municipal Vermilion, Municipal	14 7 17 10 17	3 4 10
	65	27

^{*} This year these beds are all acute.

During 1956-1957 fiscal year a total of \$888,944.38 was expended by the province on construction grants. The comparable figure for 1955-1956 was \$583,697.08.

The following projects were commenced in 1956-1957:
Holy Cross, Calgary (Nurses' Home)
Bethany Chronic Hospital, Camrose
Banff, Mineral Springs
Olds Municipal
Claresholm Municipal (Nurses' Home)
Medicine Hat Municipal (Nurses' Home)
Innisfail Municipal
Calgary, General
Tofield Municipal
Didsbury Municipal

MOVEMENT OF PATIENTS

C.

Although the number of adults and children hospitalized in the province and the number of days spent in the hospitals has continued to increase in 1956, the percentage of the population who were admitted to hospital and the hospital days per person of Alberta residents have both decreased in that year. The 221,507 adult and children patients spent 1,919,699 days in hospital in 1956 as against 214,163 patients and 1,885,626 days in 1955.

However, patients hospitalized in 1956 comprised 19.2% of the population as compared to 19.7% in 1955. The patient days per head of population decreased from 1.8 days in 1956 to 1.7 days in 1956. This is an indication that the increases in adult and children patients and related days in 1956 is due largely to growth of population in the province.

1955 1954 1953 1952 1951 1950 1949 1948 1947 1946 Adults and Children
Days (in 1,000's)......
Cases (in 1,000's).....
Days per capita
Average Stay
Average in Hospital Dally
% Population in Hospital 1,826 207 1.8 8.9 1,732 199 1.7 8.8 1,559 171 1.7 9.0 1,920 222 1,886 214 1,614 186 1,468 163 1,437 159 1,408 142 1,377 139 1,406 141 1.7 8.9 1.8 8.9 1.7 9.0 1.7 8.8 9.8 9.0 5,965 5,877 5,711 5.421 5,042 4,872 4,611 4,513 4.417 4.3721 4.423Daily .53 .55 .55 .53 .51 .52 52 .53 .55 % Population Admitted Year 19.2 19.7 19.5 19.1 21.4 20.3 20.5 20.5 20.1 18.8 20.9 Newborn Days— in 1,000's) Cases (in 1,000's) Average Stay 259 260 247 31 8.2 259 216 25 8.9 211 24 9.1 231 28 220 26 202 219 211 34 34 7.9 33 23 9.2 23 9.7 21 10.1 Average Stillbirths % Births in Approved Wespitals to Total 8.5 8.6 389 409 423 447 367 363 329 388 349 373 351 Hospitals to Total Births in Province 96.2 96.1 96.4 96.0 95.0 95.3 97.9 97.2 96.6 93.1 95.9

TABLE III — PATIENTS UNDER CARE—1946 - 1956

The average stay for adults and children has remained unchanged in 1956 at 8.9, the approximate level for the past eleven years. For newborns, on the other hand, the average length of stay continued its decline from 10.1 days in 1946 to 7.7 days in 1956. The number of births in provincial approved hospitals amounted to 33,585 in 1956, an increase of 483 births over 1955. This rate of increase is less than the rate of increase in 1955 and 1954 (see Diagram 5). Total patient days for newborn care amounted to 258,902 in 1956 and in 1955 the figure was 259,599. With regards to live births in the province, it is noteworthy that 96.2% of all births take place in approved hospitals. Stillbirths in approved hospitals have dropped from 409 in 1955 to 389 in 1956.

The capacity of the provincial approved hospitals continued to expand in 1956. Total beds and cribs were 6,982 and bassinets 1,390 in 1956. Comparable figures in 1955 were 6,866 beds and cribs and 1,314 bassinets. The increase in hospital capacity, however, was not as great as in 1955. This was reflected in the slight decrease in bed availability per 1,000 population and in the increase of patients accommodated to each bed per year.

DIAGRAM No. 4

PATIENT DAYS & CASES IN ALBERTA APPROVED HOSPITALS

ADULTS AND CHILDREN 1946-1955

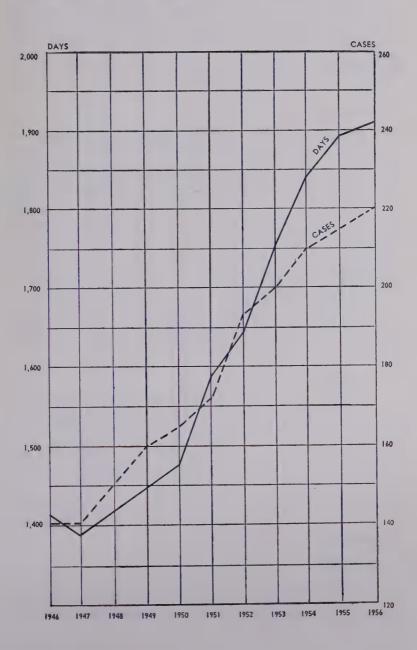


TABLE IV - ACTIV	E TREATMENT	HOSPITAL	BEDS-1949-1956
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	1956	1955	1954	1953	1952	1951	1950	1949
CAPACITY: Beds and Cribs	6,939	6,866	6,546	6,371	5,752	5,521 998	4,992	4,684 910
Bassinets Total	1,396 8,335	1,314 8,180	7,690	7,454	6,774	6,519	5,937	5,594
COMPLEMENT: Beds and Cribs Bassinets	7,096 1,339	7,142 1,371	6,910 1,283	6,810 1,242	6,159 1,165	6,239 1,132	5,982 1,107	5,617 1,079
Total	8,435	8,513	8,193	8,052	7,324	7,371	7,089	6,696
Beds per 1,000 population excluding Bassinets including Bassinets	6.3 7.5	6.4	6.3 7.4	6.3	5.9 6.9	5.9 6.9	5.6 6.6	5.4 6.4
Patients Accommodated per bed per year (Adults and Children)	31.0	29.7	29.7	29.0	30.2	27.3	27.2	28.6

^{*}Excluding Chronic and Domiciliary Beds.

1. Monthly Movement of Patients

The study of Tables V and VI, as well as Diagrams 5A and 5B shows a strong fluctuation in the monthly movement of patients and related patient days. For the last three years, 1954-1956, March has been the high month for adults and children admissions and September the low month. This is true for all hospital groups. For newborns July has been the high month and February the low month in 1956. It is interesting to note in this connection that, although more newborns are under care in approved hospitals in June, patient days for newborns for the province as a whole is highest in May. This is mainly caused by the preponderance of newborn days in the month of May in Group A hospitals. The high month for newborn days for B hospitals is April, for C and E hospitals, July and for D hospitals, June.

A considerable reduction in adult and children deaths occurred in 1956 as compared to 1955. Total deaths in approved hospitals amounted to 3,512 which is 320 (or 8.4%) less than the figure for 1955. Newborn deaths, aside from stillbirths, were 460, slightly less than in 1955.

2. Cases and Days by Length of Stay

Of the 215,425 patients who were discharged or deceased in 1956, more than three-quarters (76.6%) spent 9 or less days in approved hospitals, but they required only two-fifths (40.2%) of the total patient days. On the other hand, patients who were hospitalized for 30 days or more amounted to three point five per cent (3.5%) but required more than one-quarter (25.8%) of the total patient days (See Diagram 6 and Table VII). The comparable figures for 1955 are similar. The significance of this is that long-stay patients, although they comprise a small percentage of the total cases, utilize more than one-quarter of hospital bed capacity and so constitute an important factor in deciding the hospital bed capacity of the province.

3. Cases and Days by Hospitalization Benefits

A little less than seventy-three per cent (72.9%) of the total patients in 1956 received hospitalization benefits under one type of provincial program or another. Approximately one-half (49.6%) of the patients received benefits under the Provincial-

TABLE V—PATIENT DAYS BY HOSPITAL GROUP & MONTHS—1956 (Excluding D.V.A. Division, University Hospital & Calgary Alberta Red Cross)

Year	906,964 261,570 476,917 170,717 21,785	1,837,953	132,622 32,178 69,325 22,068 2,709	258,902
December	72,457 20,563 37,687 14,177 1,566	146,450	11,002 2,320 5,059 1,611 216	20,208
Мочетрег	76,937 22,250 40,872 14,893 1,910	156,862	10,778 2,237 5,424 1,794	20,448
19dotoO	76.085 20,977 39,185 13,519 1,921	151,687	10,874 2,395 5,607 1,694 239	20,809
September	72,285 19,302 33,661 12,616 1,613	139,477	11,264 2,615 5,964 1,773	21,849
isuguA	72,856 20,687 35,172 13,737 1,627	144,079	11,237 2,749 5,758 2,026 202	21,972
Դոյչ	73,986 20,925 37,040 13,296 1,473	146,720	11,146 2,768 6,135 1,927 295	22,271
June	74,580 21,426 36,877 13,368 1,638	147,889	11,027 2,861 5,903 2,104 235	22,130
May	78,793 22,294 41,062 14,021 1,960	158,130	11,670 2,776 6,029 1,818 235	22,528
lingA	75,901 23,312 41,519 14,756 1,923	157,411	11,106 2,991 5,744 1,730	21,778
Матсһ	80,238 24,108 47,138 16,727 2,113	170,324	11,473 2,861 6,057 1,863 216	22,470
February	74,170 22,200 41,772 14,286 2,020	154,448	10,250 2,839 5,789 1,780	20,841
January	78,676 23,526 44,932 15,321 2,021	164,476	10,795 2,766 5,856 1,948 233	21,598
	ADULTS AND CHILDREN Group A Group B Group D Group D Group D	Provincial Total	NEWBORN Group A Group C Group C Group D Group D	Provincial Total

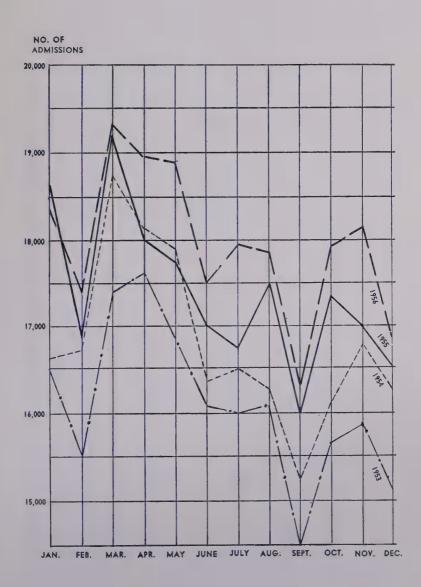
TABLE VI — MONTHLY MOVEMENT OF PATIENTS—1956 (Excluding D.V.A. Division, University Hospital)

Year	4,424 215,320 219,744 211,913 3,512 4,319	83,585 33,585 34,223 33,171 460 592
December	5,371 16,844 22,215 17,577 319 4,319	2, 635 2, 691 3, 326 2, 698 3, 326 592
Мочетрег	5.210 18,288 23,498 17,861 5,371	2,607 2,607 3,319 2,641 43 635
TedotoO	4,738 17,887 22,625 17,087 17,087 5,210	652 2,717 3,369 2,617 712
September	4,770 16,371 21,041 16,055 4,738	2,877 2,877 3,578 2,879 47 652
tenguA	4.772 17,819 22,591 17,662 259 4,670	679 2,882 3,561 2,823 37 701
July	4 627 17,897 22,524 17,468 284 4,772	2,984 2,984 3,711 2,990 4,2 679
əunr	5.120 17,512 22,632 17,741 264 4,627	740 2,951 3,691 2,923 41 727
May	5.221 18,735 23,956 18,526 18,526 310 5,120	698 2,953 3,651 2,869 740
lirqA	4,975 18,969 23,944 18,432 5,221	2,773 2,773 3,475 2,745 32 698
Матсћ	5,558 19,205 24,763 19,454 4,975	2,841 2,841 2,853 2,853 702
February	5,413 17,315 22,728 16,881 5,558	2,603 2,503 2,547 749
January	4,424 18,478 22,902 17,169 5,413	638 2,706 3,344 2,586 720
	ADULTS AND CHILDREN In at the Beginning Admissions Total Under Care Discharges Deaths In at the End	NEWBORN In at the Beginning Live Births Total Under Care Discharges Discharges Deaths In at the End

DIAGRAM No. 5A

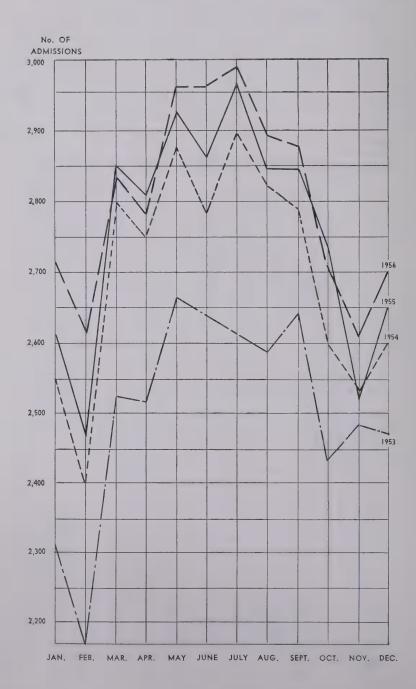
MONTHLY ADMISSIONS OF ADULTS & CHILDREN 1953 - 1956

(EXCLUDING NEWBORN)



DIAGAM No. 58

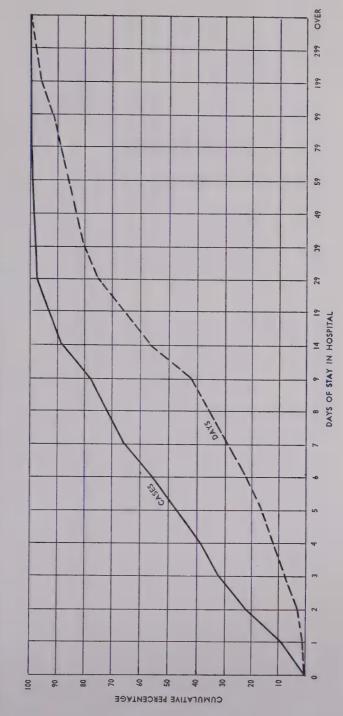
MONTHLY LIVE BIRTHS 1953 - 1956



DISTRIBUTION OF CASES AND PATIENT DAYS BY LENGTH OF STAY, 1956

DIAGRAM No. 6

(EXCLUDING NEWBORN AND DVA DIVISION OF UNIVERSITY HOSPITAL)





DEPARTMENT OF PUBLIC HEALTH

338

19

Total

DISCHARGES DURING 1956 SHOWING DURATION OF RESIDENCE IN HOSPITAL TABLE VII

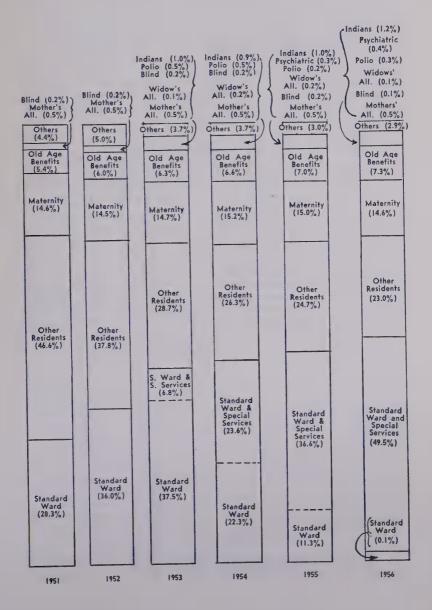
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DIAGRAM No. 7

DISTRIBUTION OF PATIENTS UNDER CARE BY TYPE 1951 - 1956

(EXCLUDING NEWBORN AND DYA DIVISION OF UNIVERSITY HOSPITAL)



Municipal Hospitalization Plan. Since the non-residents, boarders and recipients of Veterans' Allowance, together with Indians hospitalized in general hospitals, make up the 4.1% listed under "others" this leaves 23.0% of the patients who could not meet eligibility requirements. However, a substantial percentage of these have provided themselves with Blue Cross and private insurance company hospitalization coverage, largely on a group-insurance basis.

The distribution of these patients according to type of benefits received was as follows in 1956:

Provincial-Municipal Hospitalization Plan:
(a) Standard Ward and Special Services 49.5 49.6 Maternity Hospitalization Benefits 14.6 Social Service Recipients Hospitalization Benefits: (a) Old Age Pension Group 7.3 (b) Mothers' Allowance 0.5 (c) Blind Pension 0.1 (d) Widows' Allowance 0.1 8.0 Pollo and Orthopaedic Benefits 0.3
Maternity Hospitalization Benefits 14.6 Social Service Recipients Hospitalization Benefits:
Social Service Recipients Hospitalization Benefits: (a) Old Age Pension Group
(a) Old Age Pension Group 7.3 (b) Mothers' Allowance 0.5 (c) Blind Pension 0.1 (d) Widows' Allowance 0.1 8.0 Pollo and Orthopaedic Benefits 0.3
(b) Mothers' Allowance 0.5 (c) Blind Pension 0.1 (d) Widows' Allowance 0.1 8.0 Polio and Orthopaedic Benefits 0.3
(c) Blind Pension 0.1 (d) Widows' Allowance 0.1 8.0 Pollo and Orthopaedic Benefits 0.3
(c) Blind Pension 0.1 (d) Widows' Allowance 0.1 8.0 Pollo and Orthopaedic Benefits 0.3
(d) Widows' Allowance 0.1 8.0 Polio and Orthopaedic Benefits 0.3
Polio and Orthopaedic Benefits 0.3
Psychiatric 0.4
Residents not eligible for any of above 23.0
Others*
Total

[&]quot; Non-residents, boarders and recipients of Veterans' Allowance.

A year by year comparison of the progressive development of comprehensive coverage under the Provincial-Municipal Hospitalization Plan during the last six years, from 1951 to 1956, is shown in Diagram 7.

The percentage of patients who were not covered by publicly sponsored hospitalization plans has decreased from 46.6% in 1951 to 23.0% in 1956. During the same period of time, the percentage of patients who were covered under the Provincial-Municipal Hospitalization Plan has markedly increased from 28.3% in 1951 to 49.6% in 1956. There has been also a continuous decline in the patients who were provided with standard ward care only under the Provincial-Municipal Hospitalization Plan since the inception of the standard ward and special hospital services care, under the same plan, in 1953. Recipients of Old Age Benefits show a steady increase which might be attributed to the aging population of the province.

An examination of Table VIII and Diagram 8 shows a diverse pattern of average length of stay for the various types of patients. The most pronounced trend is noted with the length of stay for maternity patients which has declined steadily from 8.4 days in 1951 to 7.5 days in 1956. Under the Provincial-Municipal Hospitalization Plan the average length of stay for patients provided with standard ward care only, has decreased in 1956, while those provided with standard ward and special hospital services has levelled off. This is in contrast to the self-paying patients, or those who were insured by other than the Provincial-Municipal Hospitalization Plan, whose average stay has been increased from 7.7 days in 1955 to 7.9 days in 1956. The highest average length of stay in 1956 was 17.1 days for blind pensioners.

In considering the length of stay of patients we note some variations depending on the hospitalization benefits received (see Table VII), with patients who were either responsible for their own accounts or were insured by other than the Provincial-Municipal Hospitalization Plan, 66.0% were discharged or died within 6 days of admission. This is a slightly higher percentage than in 1955. In contrast, 61.8% of the patients receiving complete hospitalization services under the Provincial-Municipal Hospitalization Plan were discharged or died within the same period. This, however, is a slightly lower percentage than in the preceding year. The percentage of patients discharged or died as the stay becomes longer tends for both groups to even up. Approximately 97.0% of both groups were discharged within one month.

Almost all (99.9%) of the maternity cases were discharged within one month of whom 30.7% were discharged within 6 days.

With the exception of polio patients, blind and old age pensioners and their dependents have a larger proportion of long-stay cases (30 days or more) than any other group. Of the total blind pension cases in 1956, some 4.4% stayed 60 days or more in hospital but absorbed 30.9% of the blind pensioner hospital days; some 11.5% spent 30 days or more in hospital and required 48.1% of the total pensioner hospital days. Among old age pensioners and their dependents there were only 3.0% who stayed 60 days or more but accounted for 20.5% of the old age pensioner days. Some 10.9% stayed 30 days or more and accounted for 41.2%* of the old age pensioner days.

4. Cases and days by Age Group

Table IX shows the number and percentage distribution of cases and days of discharged or deceased patients, excluding newborn and DVA of University Hospital, by age group. Diagram 9 represents the same facts in a graphic form.

It is seen that 36.4% of the cases were between the ages of 20 and 39 and that they utilized 29.8% of the bed capacity of the Alberta approved hospitals. This was mainly due to the child-bearing females, most of whom fall in that age group, and 96.2% of them went to approved hospitals for care in 1956.

Comparing the utilization of hospital services by age group in 1956 to that of 1951 when figures were first compiled, we note a continuous decline in the proportion of patients of the younger age groups and a continuous increase in the proportion of patients of the older age groups. Thus the percentage of patients under 40 years of age declined from 66.9% in 1951 (this would have been higher if polio patients were included) to 64.2% in 1956, and their total days went down from 53.1% (this is also lower because polio patients were not included) to 51.1% in 1956. On the other hand, the percentage of patients 65 years or over increased from 11.7% to 14.6% and their total days increased from 21.1% to 25.1%. Meanwhile, the percentage of patients between these two age groups dropped from 21.4% to 21.2% and their total days also dropped from 25.8% to 23.8%. This means that a greater percentage of the hospital bed capacity in 1956 was used for the care of patients 65 years of age or over than in 1951. The aging population is a factor that influences this situation.

^{*} Since 1.3% of the old age pension patients were dependents under 50 years of age, all of whom were short-stay cases, the percentage of long-stay cases among pensioners would be greater still if only the old age pensioners themselves were included.

TABLE VIII — LENGTH OF STAY IN HOSPITAL, BY PATIENT TYPE

	19	1956	16	1955	-	1954		1953		1952		1951
	No. of Patients Discharged or Died to Nearest 100	Average Length of Stay	No. of Patients Discharged or Died to Mearest 100	Average Length	No. of Patients Discharged or Died to Mearest 100	Average Length of Stay	No. of Patients Discharged or Died to Mearest 100	Average Length	No. of Patients Discharged or Died to Mearest 100	Average Length tais to	No. of Patients Discharged or Died to Nearest 100	Average Length
	200	7.9	23,400	8.2	44,800	6.7	72,400	9.7	65,900	7.6	46,800	
	106,900	6.7	76,000	6.7	47,400	7.8	13,200	8.1	+	+	+	+
Benefits	31,600	2.5	31,200	9.7	30,600	7.8	28,300	7.9	26,000	8.2	24,100	8.4
	15,400	15,4	14,600	16.4	13,300	15.7	12,200	16.2	10,900	15.9	8,800	16.2
	1,100	6.9	1,100	7.1	1,100	7.0	906	7.6	006	6.9	006	7.5
	900	17.1	300	14.8	300	15.8	300	14.4	300	13.5	300	14.8
any	300	12.5	300	11.4	300	11.9	200	12.2		10.5		÷ ;
	49,300	7.9	51,300	7.7	53,000	7.6	55,400	7.6	66,800	7.8	76.800	8.0
	9,000	10.2	8,500	10.2	8,800	9.5	9,100	9.7	000'6	10.7	7,300	12.1

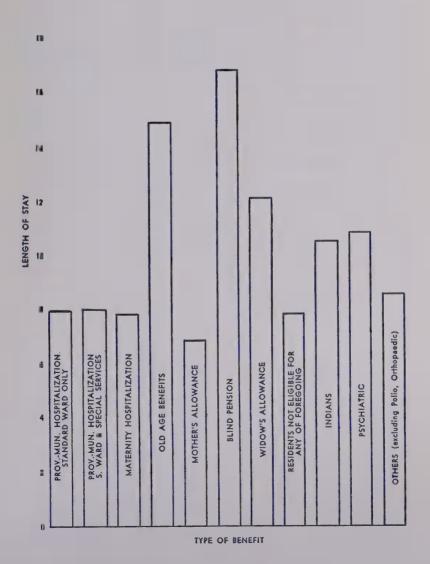
Excluding Polio, Orthopaedic and psychiatric patients—it includes non-residents and patients provided for by Department of National Defence, Department of Indian Affairs or T.B. Clinic.

Not Available.

DIAGRAM No.

AVERAGE LENGTH OF STAY IN HOSPITAL BY TYPE OF BENEFIT, 1956

(EXCLUDING NEWBORN AND DYA DIVISION OF UNIVERSITY HOSPITAL)



DISTRIBUTION OF CASES AND PATIENT DAYS BY AGE GROUP, 1956 DIAGRAM No. 9

(EXCLUDING NEWBORN AND DVA, UNIVERSITY HOSPITAL)

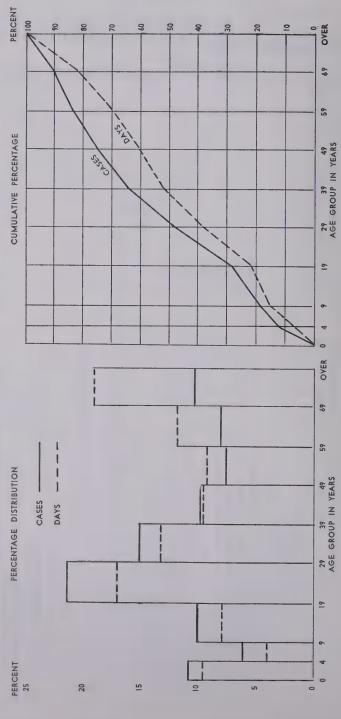


TABLE IX - DISTRIBUTION OF CASES* AND PATIENT DAYS* OF PATIENTS DECEASED OR DISCHARGED BY AGE GROUP-

		CAS	ES			DA'	YS	
AGE GROUP	Number	Per Cent	Cumulative Number	Cumulative Per Cent	Number	Per Cent	Cumulative	Cumulative Per Cent
0 - 4	24,835 14,547 21,649 46,869 33,246 11,290 9,904 8,918 8,143 8,144 9,311 9,438 13,203	11.3 6.6 9.9 21.3 15.1 5.2 4.5 4.1 3.7 3.7 4.2 4.3 6.0 0.1	24,835 39,382 61,031 107,900 141,146 152,436 162,340 171,258 179,401 187,545 196,856 206,294 219,497 219,744	11.3 17.9 27.8 49.1 64.2 69.4 73.9 78.0 81.7 85.4 89.6 93.9 99.9	174,633 80,145 147,287 317,789 243,140 89,492 88,603 86,296 86,965 96,919 118,938 134,970 216,293 2,665	9.3 4.2 7.8 16.9 12.9 4.8 4.7 4.6 5.1 6.3 7.2 11.5	174,633 254,778 402,065 719,854 962,994 1,052,486 1,141,089 1,227,385 1,314,350 1,411,269 1,530,207 1,665,177 1,881,470	69.8

[&]quot; Excluding D.V.A., University Hospital, and Newborn,

Finally, Table X shows the average length of stay of patients discharged or died, excluding newborn and DVA of University Hospital, by age group. Figures for other years are given for comparative purposes. The figures for 1951 and 1952, however, do not include polio and, therefore, are not comparable to the later years, especially in the younger age groups.

The average length of stay of children 4 years of age or less increased slightly in 1956 over 1955, whereas the average length of stay of children between the ages of 5 and 9 has been continuously decreasing since 1953. This could be due largely to the decline in the incidence of poliomyelitis that has been experienced. For the 75 and over age group the average length of stay was 17.1 days, less than the 1955 average of 17.8 days, but still more than the 1952, 1953 and 1954 averages.

TABLE X — TOTAL DAYS OF PATIENTS DISCHARGED OR DECEASED†
AND THEIR AVERAGE LENGTH OF STAY BY AGE GROUPS

	1956	1955	1954	1953	1952*	1951*
AGE GROUP	Patients Discharged or Deceased Average Length of Stav	45.00	Patients Discharged or Deceased Average Length of Stay	Patients Discharged or Deceased Average Length of Stay	Patients Discharged or Deceased Average Length of Stay	Patients Discharged or Deceased Average Length of Stay
0 - 4 5 - 9 10 - 19 20 - 29 30 - 39 40 - 44 45 - 49 50 - 54 55 - 59 60 - 64 65 - 69 70 - 74 75 - over Not stated	24,256 7.2 14,358 5.6 21,356 6.9 32,724 7. 11,112 8. 9,726 9. 8,752 9. 7,918 11. 7,929 12. 9,013 13. 9,110 14. 12,667 17. 243 11.	6 14,019 5.9 9 20,623 6.8 9 46,089 6.9 4 32,372 7.4 1 10,766 8.3 1 9,250 9.1 9 8,553 10.0 0 7,674 11.0 2 7,354 11.9 2 9,114 13.3 8 8,364 15.1 1 11,859 17.8	10,247 8.1 8,844 9.1 8,419 10.1 6,854 11.3 7,309 12.5 8,475 13.5 8,034 15.1 10,426 16.5	13,996 6.1 20,246 7.2 44,210 7.0 29,881 7.4 9,487 8.3 8,546 8.9 8,032 9.7 6,774 11.1 7,297 12.5 7,841 13.5 7,411 15.3 9,318 16.8	27,902 7.4 9,113 8.5 8,003 9.0 7,561 10.0 6,511 10.9 6,908 12.8 7,124 13.4 6,772 14.7 8,214 16.4	11,887 5.4 17,805 6.7 38,355 7.0 25,251 7.7 8,335 8.5 7,345 9.7 6,825 10.7 6,106 11.0 6,481 12.9 6,154 13.7 5,925 15.3 7,299 17.1
TOTAL	215,425 8.5	8 208,155 8.8	200,599 8.8	193,156 8.7	179,759 8.4	164,966 8.6

The following tables are submitted giving the detailed statistics for 1956 of each approved hospital (general active treatment) in the province:

Does not include Polio.
 † Excluding DVA, University of Alberta Hospital, and Newborn.



TABLE VII - HOSPITALIZATION OF ALBERTA PATIENTS BY TYPE AND LENGTH OF STAY-1956

PATIENT TYPE		LEN	CTH OF ST	AY IN DA	YS																							
	1	2	3	4	5	86	7		9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-69	70-79	80-89	90-99	100-199		300-499	500	TOTAL
STANDARD WARD: Cases Days STANDARD WARD AND SPECIAL SERVICES:	17 17	39 78	11 33	10 40	17	14 84	11 77	12 96	7 63	14 166	9 148	3 64	57	1 31				1 53		1 68				1 178		_	****	170 1,338
Cases Days GENERAL:	10,983 10,983	16,163 32,326	13,057 39,171	10,367 41,468	8,470 42,350	7,020 42,120	6,259 43,813	5,065 40,520	4,289 38,601	12,384 144,621	5,158 86,117	2,571 55,909	1,533 40,961	964 30,591	632 23,240	445 18,627	306 14,334	222 11,534	165 9,412	259 16,531	149 11,066	8,031	80 7,565	219 28.660	16 3,763	11 4,211	1.420	106,884 847,945
Cases Days MATERNITY:	6,202 6,202	7,833 15,666	6,422 19,266	4,895 19,580	3,995 19,975	3,185 19,110	2,871 20,097	2,253 18,024	1.725 15,525	4,834 56,216	1,992 33,631	974 21,129	608 16,309	385 12,241	278 10,344	166 6,945	139 6,488	87 4,538	73 4.150	107 6,834	58 4,311	46 3,867	32 3.010	110 15,012	18 4,425	14 5,172	21 21,804	49,323 389,871
Cases Days OLD AGE PENSION:	16 16	18 36	107 321	466 1,864	2.391 11,955	6,706 40,236	9,001 63,007	5,940 47,520	3,096 27,864	3,613 39,985	145 2,358	46 988	21 560	9 285	1 36	5 201		103	1 56	4 268								31,588 237,659
Cases Days MOTHER'S ALLOWANCE	571 571	710 1,420	822 2,466	950 3,800	952 4,760	960 5,760	960 6,720	817 6,536	786 7,074	2,894 34,063	1.685 28,376	1.027 22,359	590 15,884	380 12,084	241 8,924	231 9,697	171 8,021	114 5,914	80 4.540	118 7.529	87 6,471	49 4,130	42 3,940	136 17,578	16 4, 1 15	2,911	2.067	15,399 237,710
Cases Days BLIND PENSION	104 104	186 372	164 492	114 456	94 470	62 372	70 490	45 360	35 315	144 1,685	46 769	23 503	158	162 I	4 150	3 124	4 187	105	1 59	4 262		1 82						1,117 7,677
Cases Days WIDOW'S ALLOWANCE	13 13	13 26	19 57	19 76	17 85	13 78	19 133	19 152	15 135	55 664	30 498	20 440	11 290	127	5 189	5 206	5 236	53	1 57	2 128	4 297		189	3 394	1 262	305		297 5.090
Cases Days POLIO:	12 12	19 38	25 75	22 88	24 120	20 120	27 189	18 144	10	49 568	22 367	21 451	10 265	8 254	184	166	46	š 51	111	134	144			204				306 3,821
Cases Days INDIANS:	11 11	7 14	8 24	6 24	5 25	7 42	56	32	6 54	686	31 527	21 456	11 293	18 563	11 410	8 337	9 421	15 774	11 629	11 703	15 1.123	15 1,269	13 1,216	59 8.385	26 6,126	38 14,735	31 21,812	463 60,747
Cases Days OTHERS†	148 148	224 448	279 837	287 1,148	269 1,345	237 1,422	200 1,400	164 1,312	129 1,161	360 4,172	141 2,375	63 1.383	37 998	20 641	13 472	9 369	6 282	6 307	7 397	14 866	3 220	162 2		5 679	1,339	2,543	1.435	2,637 27,861
Cases	654 654	744 1,488	651 1,953	546 2.184	610 ! 3,050	590 3,540	549 3.843	397 3.176	257 2,313	712 8,305	253 4,223	130 2.859	62 1.660	1.808	28 1.021	20 838	13 611	11 572	19 1.079	12 769	7 524	5 415	3 280	21 2.791	242		5 4,796	6,357 54,994
Cases Days	59 59	63 126	50 150	53 212	57 285	56 336	57 399	44 352	57 513	183 2,143	81 1,368	56 1.208	32 861	14 446	8 296	5 207	184	212		1 65								884 9,422
TOTAL: Cases Days	18,790 18,790	26,019 52,038	21,615 64,845	17,735 70,940	16,901 84,505	18,870 113,220	20,032 140,224	14,778 118,224	10.412 93,708	25,300 293,274	9,593 160,757	4,955 107,749	2.923 78.296	1,865 59,233	1,226 45,266	901 37,717	658 30,810	466 24,216	360 20,490	535 34.157	325 24,156	213 17,956	172 16,200	556 73,881	83 20.272	78 29,877	53,334	215,425 1,884,135

Self-pay and insured primarily by other than Provincial Government plans.
† Non-resident, boarders and Recipients of Veterans' allowance.



TABLE XII - PATIENT DAYS AND OCCUPANCY-1956

PA	PATIENT DAYS DURING 1956• DISCHI	hadulta and Children narodwalva Newborn Istor	Athabasca Municipal 11,053 1,661 12,714 11,051 10,093 10,490 10,093 10,093 10,490 10,093 10,490 10,605 15,914 14,310 15,770 15,770 10,910 10,9	Beruley Municipal 2,625 367 2,992 2,673 Berwyn Municipal 4,610 576 5,186 4,562 Balarimore, Crows Nest Pass Municipal 9,545 1,077 10,622 9,523 Bonnyville, Katherine H. Prittle 2,558 317 2,228 Bonnyville, St. Louis 1,536 12,717 11,730	13.981 1.850 15.831 13.735 18.505 15.816 13.735 18.505 15.816 18.6301 18.6	Calgary Salvation Army Grace 3,976 4,144 8,120 3,992 Camrose, St. Mary's 25,285 3,793 29,078 25,180 Camrore 353 3631 2,644 Cardston Municipal 6,917 1,219 8,136 Cardston Municipal 2,424 135 2,559 2,316	Castor, Our Lady of the Rosary 6,955 754 7,709 6,891 Cereal Municipal 1,941 243 2,184 1,953 Caresholm Municipal 9,608 1,499 11,107 9,831 Coadale Community 5,492 672 6,164 5,515 Coal Lake, John Nell 3,500 670 4,170 3,497	4.284 739 5.023 3.791 4.958 527 5.485 4.993 7.611 488 8.099 7.658 2.728 192 2.920 3.412
PATIENT DAYS	PATIENT DAYS OF PATIENTS DISCHARGED OR DECEASED**	Newborn	1,626 12,677 694 11,124 1,621 15,931 627 648 4,620	367 3.040 583 5.145 1.037 10.560 316 2.544 1,540 13.270	1,859 29,340 29,340 21,119 17,119 11,119 35,248	4,105 3,827 3,827 29,007 363 3,007 1,205 131 2,447	716 7,607 252 2,205 1,439 10,730 674 6,189 667 4,164	719 4,510 547 5,540 496 8,154 193 3,605
	AVERAGE STADISCHARGED	Adults and Children	νους. 844.61	72.5.8.0.5. 4.0.0.0.0	6.6 10.9 172.8	86.7.7.89 8.7.7.4.80	7.00.7.1.00 7.00.4.1.00 7.00.4.1.00	8.2 7.7 11.4
	AVERAGE STAY OF PATIENTS DISCHARGED OR DECEASED.	Mewborn Total	22.5.9 % 20.0 % 20.0 % 20.0 % 20.0 %	8.9 7.0 6.8 6.8 7.3 6.7 7.3 6.7 7.8	7.3 6.7 6.9 9.1 7.1 10.9 17.2 8.1	8.8 8.6 6.6 6.6 7.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7	7.8 7.8 7.1 7.2 7.2 5.6	8.6 8.9 8.0 8.3 11:2
	. Т	ОССПЬУИС	72.1 661.3 665.3 55.8	44.9 60.1 36.3 53.9 58.9	29.8 79.8 85.55	72.6 70.7 61.1 79.0 47.4	76.2 59.1 62.7 115.7 63.9	53.3 130.3 53.4

TABLE XII—PATIENT DAYS AND OCCUPANCY—1956 (Con'td)

	2	OCCNEVACE	66.7 64.5 42.2 50.0 88.2	86.4 87.3 73.9 73.9 89.1	43.7 39.2 73.8 126.3 37.3	101.2 45.7 107.7 86.3 40.3	82.9 102.3 118.4 81.0 77.0
	PATIENTS CEASED**	Total	10.4.5 1.0.2 1.4.5 1.33.7	20.00 10.45.20 10.60 10.00 10.00 10.00	10.9 11.0 7.3 8.3 6.2	14.0 0.2.7.7.6 2.2.8.8	9.0 10.8 6.8 7.9
	AVERAGE STAY OF PATIENTS DISCHARGED OR DECEASED**	Mewborn	6.8 1.8.1 7.8 7.8 7.8	9.17	10.0 10.3 7.3 6.9	9.70 66.3 66.1	8.5 10.9 6.0 7.1
	AVERAGE	Adults and Children	8.6 10.8 5.1 11.1 9.2 133.7	88.5 12.8 10.0 10.0 1.8 1.8 10.0	11.0 11.1 7.3 8.5 6.0	14.4 0.0 6.0 6.0 6.0 6.0	9.1 10.8 6.9 8.0 7.0
Z2	OF PATIENTS DECEASED**	IstoT	25,077 25,077 4,848 2,716 134,068 8,155	130,701 223,440 4,462 185,994 41,119 13,586 4,452 11,315 17,497	3,334 3,875 9,761 7,100 3,415	13,686 7,228 3,496 26,353 1,819	14,273 8,243 19,775 15,205 9,148
PATIENT DAYS	DAYS OF P	Newborn	1,122 2,458 409 1,636 16,086	16,111 38,564 15,465 2,292 1,035	431 565 1,182 707 493	738 613 848 3,032 271	1,538 611 2,111 1,799 1,043
PAT	PATIENT DAYS C DISCHARGED OR	Adults and Children	7,906 22,619 4,439 1,080 117,982 8,155	114,590 184,876 4,462 170,529 41,119 13,586 4,52 9,023 16,462	2,903 8,510 6,393 2,922	12,948 6,615 3,148 23,321 1,548	12,735 7,632 17,664 13,406 8,105
	NG 1956*	IstoT	8,906 24,567 4,881 2,790 133,141 9,325	129,565 217,840 4,524 181,927 50,459 15,680 4,361 11,624 17,624	2,990 3,860 9,835 7,160 3,347	1,373 12,572 7,297 3,496 24,733 1,755	14,245 8,075 19,845 14,838 9,202
	DAYS DURING	Иемроги	1,120 2,428 413 1,694 16,127	15,996 38,788 15,347 15,269 1,033	437 1,209 705 490	750 619 850 2,998 282	1,529 610 2,118 1,821 1,049
	PATIENT	Adults and Children	7,786 22,139 4,468 1,096 117,014 9,325	113,569 179,052 4,524 166,580 50,459 15,680 4,361 9,030 16,591	2,553 3,293 8,626 6,455 2,857	1,373 11,822 6,678 3,146 21,735 1,473	12,716 7,465 17,727 13,017 8,153
		HOSPITAL	Didsbury Municipal Drumheller Municipal Eckville Municipal Edmonton Beulah Home Edmonton General (a) Polio	Edmonton Misertcordia Edmonton Royal Alexandra (a) Isolation Edmonton University of Alberta (b) Polio (c) Psychiatric Edson, St. John's Elk Point Hospital	Elhora Municipal Empress Municipal Fairview Municipal Fort Macled Municipal Fort McMurray, St. Gabriel's	Fort Smith General Theresa Galahad, St. Theresa Galahad, St. Joseph's Glendon Municipal Grande Prairie Municipal (a) Hythe Sub Hospital	Hanna Municipal Fardisty, Sr. Anne S. High Prairie, Providence High River Municipal Innistal Municipal

73.6 54.1 64.5 74.5 74.5	54.7 77.4 79.6 78.5	56.5 61.7 60.6 96.8 93.1	55.9 65.1 61.6 39.0 94.4	40.9 59.8 67.7 72.8 53.8	75.0 137.0 57.0 51.6 73.4	79.5 109.2 67.5 59.9 65.4	35.8 81.4 57.2 56.3 50.2
11. 47.7. 47.96. 44.7. 44.7.	7.4 9.0 9.5 10.4	0.7.0 6.1 6.6 7.7.8	22.7.7.2 22.7.7.2 23.7.7.2 23.7.7.2	6.99 6.09 6.09 6.09	00000 00000	888.00F.	11.0 11.0 6.6 6.6 7.8
%6.00.0. 7.000.0.0.	87.87.8 7.864.94	8.7.7.0.7.7.0.4.7.7.0.7.7.0.7.7.7.0.7.7.7.7	10.3 10.1 6.9 7.7 8.8	8.5 7.11 7.71 6.2	6.7 6.88 6.7 7.00	2.00.2.2	9.88.17.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7.7
11.5 7.2 6.0 6.4 6.4	7.4 9.2 9.6 10.8 7.2	7.10.00 to 00 0 00 10 10 00	7.0 7.0 7.0 8.3 8.3 8.3	80.000 90.000 90.000	000000	8.7.0 40.0.0 40.0.0 8.0.0	11.88.88.22.33.23.23.23.23.23.23.23.23.23.23.23.
3,671 6,078 7,695 12,789 15,913	17,890 60,993 56,830 16,623 16,874	4,754 4,379 3,788 8,229 46,416	5,984 5,129 10,593 2,839 15,072	12,102 12,287 7,316 4,204 4,259	34,589 10,729 8,399 3,396 12,596	18,422 17,693 19,192 6,483 8,517	4,451 6,948 8,301 22,325 10,836
148 1,163 1,354 2,256	1,263 7,081 3,909 1,764 1,764	467 795 493 1,161 6,754	582 473 1,545 466 2,037	1,219 1,713 753 542 621	5,791 1,312 1,194 554 1,144	2,142 2,672 3,032 981 1,072	603 376 649 1,298 1,168
3,523 5,113 6,532 11,435 13,657	16,627 53,912 52,921 14,859 15,083	4,287 3,584 3,295 7,068 39,662	5,402 4,656 9,048 2,373 13,035	10,883 10,574 6,563 3,662 3,638	28,798 9,417 7,205 2,842 11,452	16,280 15,021 16,160 5,502 7,445	3,848 6,572 7,652 21,027 9,668
3,649 6,061 7,538 12,693	19,429 61,284 56,462 16,322 16,979	5,004 4,405 3,817 8,211 46,815	5,881 5,222 10,718 2,894 14,750	10,767 12,200 7,180 4,253 4,147	34,254 10,796 8,453 3,373 12,911	18,381 17,396 19,766 6,454 8,460	4,651 6,907 7,951 21,859 11,045
156 1,177 1,350 2,242	1,256 7,023 3,893 1,780 1,794	470 799 498 1,146 6,712	576 468 1,506 472 2,007	1,203 1,717 757 535 613	5,779 1,294 1,170 545 1,126	2,132 2,645 3,002 986 1,061	598 372 650 1,294 1,149
3,493 6,361 11,343 13,586	18,173 54,261 52,569 14,542 15,185	4,534 3,606 3,319 7,065 40,103	5,305 4,754 9,212 2,422 12,743	9,564 10,483 6,423 3,718 3,534	28,475 9,502 7,283 2,828 11,785	16,249 14,751 16,764 5,468 7,399	4,053 6,535 7,301 20,565 9,896
Islay Municipal Jasper Seton Killam General Lac La Biche, St. Catherine's Lacombe Municipal	Lamont, Archer Memorial Lethbridge Municipal Lethbridge, St. Michael's General Lloydminster McLennan, Sacred Heart	Magrath Municipal Manning Municipal Mannyille Municipal Mayerthorpe Municipal Medicine Hat Municipal	Mundare Municipal Myrnam Municipal Odis Municipal Oyen Municipal Peace River Municipal	Pincher Creek, St. Vincent's Ponoka Municipal Provost Municipal Radway, St. Joseph's Raymond Municipal	Red Deer Municipal Rimbey Municipal Rocky Mountain House Municipal Smoky Lake Municipal Spirit River, Holy Cross	Stettler Municipal St. Paul, St. Theresa Taber Municipal Three Hils Municipal Tofield Municipal	Trochu, St. Mary's Turner Valley Municipal Two Hills Municipal Vegreville, St. Joseph's General Vermilion Municipal

TABLE XII - PATIENT DAYS AND OCCUPANCY-1956 (Con'td)

		ОССПЬВИС	65.6 60.4 72.9 74.7 72.6	114.4	75.3	====	
	OF PATIENTS DECEASED**	Total	4.7.7. 4.7.7. 6.0.8.7.	6.9	8.7	:	. 00 70
	STAY OF ED OR DI	Newborn	9.0 10.6 8.5 7.6	7.3	7.7		7.8
	AVERAGE STAY OF PATIENTS DISCHARGED OR DECEASED**	Adults and Children	2.1.0.8.1. 8.8.8.4.4.	6.8	8.9		8.6
S)	ATIENTS CEASED**	IstoT	9,581 4,588 9,322 15,138 22,267	17,274 6,029	2,184,510	108,415	2,076,095
PATIENT DAYS	PATIENT DAYS OF PATIENTS DISCHARGED OR DECEASED**	Newborn	1,024 8855 1,077 1,984 2,388	2,502	259,256		259,256
PAT	PATIENT	Adults and Children	8,557 3,703 8,245 13,154 19,879	14,772	1,925,254	108,415	1,816,839
	ING 1956*	Total	9,404 4,586 9,236 15,039 22,265	16,986 6,002	2,178,601	115,637	2,062,964
	PATIENT DAYS DURING 1956*	Иемроги	1,023 860 1,076 1,983 2,389	2,438	258,902		258,902
	PATIENT	Adults and	8,381 3,726 8,160 13,056 19,876	14,548 5,426	1,919,699	115,637	1,804,062
		HOSPITAL	Viking Municipal Vilna, Our Lady's Viloran Municipal Wainwright Municipal Westlock, Immaculata	Willingdon General	TOTAL	Less D.V.A., Psychiatric, Orthopaedic and Polio Division Cases	NET TOTAL

* "Patient Days During 1956"—include only the days of care which the patients received during the specified year.
** "Patient Days of Patients Discharged or Deceased"—include all the days of care which may have been given to the hospitalized patient in this or previous years.

† Not Available.

TABLE XIII - STAFF AS AT DECEMBER 31, 1956-Full Time & Part Time

		AININ	UAL RE	PORT, IS	906		3
	Graduated During Year			23			
	Nurse's Training School			××			
	Desingan Medical Ilats	XX		××××	×× ; ; ;		X
	stanto IIA=	16 24 24 12	26 6 25 0 26 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	20 61 480 244 11	25 16 27	118811	10 111 3 21
	Dietitians	-		HH08	ㅋㅋ ㅋ		4
	Technicians	244 4		22 27	2 1 2	[N	24 4
	Internes			19			
	Orderlies		-	1281	8 1		
AIDES	rseniaTT		e	9	το 4		
NURSES	Certified	wr044 :	4-19-1-1	23 1112 49 49	10	0104	40 1
NURSES	guəpnış		-	254		8	
NUR	Graduate	10 H 21 4 2 2 2 4 2 2 2 4 2 2 2 4 2 2 2 2 4 2	10	18 29 308 133 13	07 0 4 0 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	113	10 2
	Salaried Salotood			400	2 -	w	
	LatoT	31 39 15 15 18	118 222 112 112 113	52 116 1,249 635 28	100 12 32 15 40	10 34 17 20 14	250 24 14 30 44 80
	HOSPITAL	Athabasca Municipal Banf Mineral Springs Barrbead, St. Joseph's Bassano Municipal Beaverlodge Municipal	Bentley Municipal Berwyn Municipal Balmrore C.N.P. Municipal Bonnyville, K. H. Prittie Bonnyville, St. Louis	Brooks Municipal Calgary, Alberta Red Cross Calgary General Calgary Holy Cross Calgary, Salvation Army Grace	Camrose. St. Mary's Cammore Hospital Cardston Municipal Carmangay, Little Bow Municipal Carstor, Our Lady of the Rosary	Cereal Municipal Claresholm Municipal Coaddae Community Cold Lake, John Nell Consort Municipal	Coronation Municipal Daysland, Providence Devon, Civic Desmarals, St. Martin's Didsbury Municipal

Graduated During Year

NURSES NURSES AIDES		HOSPITAL	Drumheller Municipal Eckville Municipal Edmotion Beulah Home Edmonton General Edmonton Misericordia	Edmonton Royal Alexandra Edmonton University Edson, St. John's Else Point Municipal Elnora Municipal	Empress Municipal Fairview Municipal Fort Macleod Municipal Fort McMurray, St. Gabriel's Fort Vermilion, St. Theresa	Galahad, St. Joseph's Glendon Municipal Grande Prairie Municipal (a) Hythe-Sub Hospital Hanna Municipal	Hardisty, St. Anne's High Prairie Providence High Rever, Municipal Innisfall Municipal Islay Municipal	Jasper Seton Killam General Lacombe Municipal Lac La Biche, St. Catherine's Lamont Archer Memorial	Lethbridge Municipal
NURSES NURSES AIDES		lstoT	99 24 15 706 598	1,067	12 22 30 30	19 7 63 63 34	21 33 11 11	17 222 224 400 101	387
NURSES NURSES AIDES		Salaried Doctors	1 2120	78					2
ASES NURSES' AIDES		Graduate	38 5 159 134	206 176 8 14	mor m	21,2	14 17 10 3	6 171 150	77
NURSES' AIDES		gradent	138	211 208	-			: : : : : : : : : : : : : : : : : : : :	0.7
AIDES		Certified	18	98	444 14	w4001c	1000		17
		rainees	e	o n	0 0		04		
		Orderlies	5 :::14	37 56 1		8			11
		sənrətni	1 1 4 4	78 : : :					
		Technician	7833	33 33	H HM	H 4 H	444 1	10000	16
		Dietitians	H 44	rv∞ ¦ ¦ ∣	4 4	- 	HH !!!		60
	8	*All Others	43 11 335 296	435 602 18 27	7 113 116 116	11	10 49 20 177 5	11 25 25 27 27	175
		bezinganO Medical llatZ	× ; ;××	×× ;× ;		× ×	XXX	×××	×
		Murse's Training School	××	×× ; ; ;					×

	1 18 1 1				11111			474
	×							
	XX		× ××	××	×	×× ; ; ;	××	
36	16 93 93	12 23 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	17 11 66 12	112 334 40	31 122 7 9	134411	16 18 33 7	4,398
	84					HH		2.2
414	8	4 64 4	ц <u>;</u> ага	1 24	1 1 1	н д чч !	H04HH	337
						H		123
111	m		=	Har	7	m	H	208
		H 4		60 60	122		044	93
444	P	9010 1	HH480	&H440	1188	9198	нимин	989
	1 48							1,253
91010	40040	10 11 14	44 37 111	7 7 7 8 1 8 8 8	22 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	138	r-r-08E	2,074
	-							22
177	13 32 208 13 16	35 11 44 36 46	26 16 121 32	26 12 44 56 56	67 23 22 15 25	26 92 34 14	25 36 51 15	9,304
McLennan, Sacred Heart Magrath Municipal Manning Municipal	Mannville Municipal Mayerthorpe Municipal Medicine Hat Municipal Municipal Mundare General Mynnam Municipal	Olds Municipal Oyen Municipal Oyen Municipal Pincher Yunicipal Pincher Creek, St. Vincent's Ponoka Municipal	Provost Municipal Radway, St. Joseph's Raymond Municipal Red Deer Municipal Rimbey Municipal	Rocky Mountain House Municipal Smoky Lake Municipal Spriff River, Holy Cross Spriff a Municipal St. Paul, St. Theresa	Taber Municipal Three Hills Municipal Toffeld Municipal Trochu, St. Mary's Turner Valley Municipal	Two Hills Municipal Vegreville, St. Joseph's General Wermilion Municipal Viking Municipal Vikina, Our Lady's	Vulcan Municipal Mainwright Municipal Westlock Immaculata Wetaskiwin Community Willingdon General	TOTAL

* Matron included with all others.

TABLE XIV — OPERATING EXPENDITURES—1956

TURE	Per Patient Day Incl. 1/8 Newborn 1/8	10.03 13.58 10.06 10.76 13.33	16.04 9.51 16.24 11.32	12.41 10.68 19.91 16.91 18.03	12.69 14.32 16.17 13.00 17.36	11.42 8.66 10.02 11.98 9.54	9.82 4.05 15.10 12.89 13.76
TOTAL	Total	116,454 130,775 149,341 64,319 57,265	45,677 45,673 160,859 30,159 131,093	181,226 319,520 3,926,794 1,827,803 96,592	336,838 104,855 39,927 93,686 35,110	115,460 49,476 37,306 54,288 49,001	76,343 11,308 19,550 105,221 315,871
	Capital Interest	6,650	1,152 1,170 8,249 8,724	6,789 181,442 5,672	10,167	1,179	2,369
	Depreciation	11, 694 12, 702 16, 434 3, 028 4, 384	6,852 8,936 17,891 2,496 14,738	10,059 70,000 168,346 17,537	21,644 4,195 2,207 2,680	6,231 4,814 983 6,772 3,068	6,402 400 8,158 21,757
ture ing ition oital st	Per Patient Day Incl. % Newborn	8.45 12.26 7.86 10.25 11.13	13.23 7.41 13.60 10.38 9.20	11.26 10.68 18.00 15.30	11.49 13.74 16.17 12.69 16.02	10.71 7.81 9.76 10.23 8.94	9.00 3.91 15.10 11.61 12.53
Expenditure Excluding Depreciation and Capital Interest	Total	98,110 118,073 116,608 61,291 47,818	37,673 35,567 134,719 27,663 107,631	164,378 319,520 3,675,352 1,653,785 79,055	305,027 100,660 39,927 91,479 32,383	108,282 44,662 36,323 46,337 45,933	69,941 10,908 19,550 94,694 287,611
	Miscellaneous	148 76 134 85 123	582 125 986	159 64 2,216	1,106 229 9 39 79	532 631	1,166
SS	Physical Plant	9,018 9,580 11,512 6,006 6,006	4,062 6,017 12,515 2,114 10,919	15,344 17,706 111,769 54,405 13,491	18,554 8,294 8,542 11,656 2,464	7, 8, 8, 90, 90, 90, 90, 90, 90, 90, 90, 90, 90	7,010 1,360 991 7,455 41,598
EXPENDITURES	General Services	14,757 8,936 12,250 8,895 4,697	4,602 3,824 18,720 7,245	21,857 28,707 312,791 116,853 10,624	24,991 14,748 5,828 4,080 3,158	9,673 4,102 2,231 6,410 7,148	10,754 2,555 1,327 11,991 71,752
DIRECT EXF	Professional Care of Patients	2,907 2,402 2,060 1,162	3,536 4,134 581 8,046	30,718 17,187 436,639 105,958 170	11,300 1,638 3,912 5,397 1,249	2,581 3,115 201 4,729	4,057 2,347 3,220 3,995
DI	General Adminis- tration	3,709 3,514 4,310 2,346 1,773	1,443 1,780 4,938 3,458	5,058 7,920 142,592 53,842 2,415	8,604 4,910 2,389 1,423	2,182 1,473 734 1,434	2,192 171 777 4,218 26,817
	Drugs and Medicines	8,194 6,879 3,253 3,806	1,979 6,447 1,800	* * * * * * * * * * * * * * * * * * *	17,891	5,040	4,543 30 8,298 11,498
	Medical, Surgical and Sterile Supplies	2,747 \$10,740 \$109 1,812 2,597	1,527 2,193 902	* * 74,536 2,645	8,4443 4,550 * * * 1,545	13,592 2,301 984 #	835 12 5,379 12,608
	Salaries Sagew bns	56,630 85,227 75,012 36,834 27,658	23,448 19,793 85,772 20,119 77,963	91,242 247,936 2,671,561 1,151,953 47,955	214,138 57,210 20,638 67,918 19,332	72,216 24,101 26,911 26,883 23,030	40,550 6,780 14,103 54,133 118,177
	HOSPITALS	Athabasca Municipal Banff Mineral Springs Barrhead, St. Joseph's Bassano Municipal Beavenodge Municipal	Bentley Municipal Berwyn Municipal Bairmore, Crows Nest Pass, Mun. Bonnyville, Katherine H. Prittie Bonnyville, St. Louis	Brooks Municipal Calgary, Alberta Red Cross Calgary General Calgary Holy Cross Calgary Salvation Army Grace	Camrose, St. Mary's Cardston Municipal Carmangay, Little Bow Municipal Castor, Our Lady of the Rosary Cereal Municipal	Carestolm Municipal Coaldale Community Cold Lake, John Neil Consort Municipal Coronation Municipal	Daysland, Providence Desmarais, St. Martin's Devon Civic Didsbury Municipal Drumheller Municipal

13.36 21.15 15.02 13.54 16.12	15.94 9.02 9.93 14.36 12.58	10.15 14.72 18.12 7.44 11.38	14.71 10.12 9.59 9.48 7.98	11.52 11.86 10.52 12.44 12.11	12.40 11.03 12.89 22.25 14.04	11.11 13.44 16.02 12.89 15.56	11.76 9.58 13.81 12.36 16.12	10.61 10.77 14.22 15.29 10.28
61,556 35,136 1,978,824 1,609,354 3,168,597	3,861,191 88,273 168,279 38,758 43,810	91,640 98,487 54,733 89,788 78,343	47,995 246,132 136,619 72,721 147,157	156,967 100,843 37,287 67,773 81,771	146,257 174,583 239,631 1,259,853 756,258	175,418 63,075 62,047 44,910 115,898	498,149 52,673 67,808 120,046 41,580	142,356 107,331 157,216 102,056 40,050
2,200 110,969 36,536 72,286	215,843 6,195 1,552	2,025 292 2,938 2,914 7,065	2,850 1,638 2,400 542	1,050	19,062 3,213 2,228 97,852 15,906	16,620 3,113 3,993 3,069	3,413 3,598 516	1,914 841 7,136 4,386
9,430 153,941 93,660 63,116	95,221 6,058 14,553 4,013 2,556	11,617 3,118 5,568 10,852 9,997	6,200 13,911 1,613 5,430 5,820	8,367 8,177 2,235 6,787 6,742	14,715 12,782 12,363 129,893 54,626	22,989 7,167 11,205 4,384 9,563	3,947 12,669 4,699 3,456	9,997 13,852 20,268 7,962 1,668
10.84 21.15 13.01 15.44 15.44	14.66 8.40 8.71 12.30	8.64 14.21 15.31 6.30 8.90	11.94 9.49 9.31 8.70 7.67	10.72 10.90 9.89 11.00	9.54 10.02 12.10 18.23 12.73	8.60 11.25 12.10 11.63 13.87	11.76 8.86 10.53 11.50 14.58	9.72 9.30 11.74 13.44
49,926 35,136 1,713,914 1,479,158 3,033,195	3,550,127 82,215 147,531 33,193 41,254	77,998 95,077 46,227 76,022 61,281	38,945 230,583 132,606 66,749 141,337	146,093 92,666 35,052 59,936 75,029	112,480 158,588 225,040 1,032,108 685,726	135,809 52,795 46,849 40,526 103,266	498,149 48,726 51,726 111,749 37,608	130,445 92,638 129,812 89,707 38,382
40 782 56 29,373	1,697	100 199 109 267 564	735 104 16 57	468	136 33 385 11,196 979	107 179 3,305 810	177 95 278 307	20
6,582 6,184 104,229 87,605 155,148	172,546 8,370 14,816 2,454 4,074	10,189 7,189 7,595 8,732 6,887	4,386 14,932 13,945 6,667 10,702	8,672 10,059 3,609 11,222 8,227	19,120 15,253 22,299 34,191 29,340	21,451 5,136 9,797 2,903 11,783	9,604 6,564 7,014 9,069 4,327	15,465 10,084 10,931 8,013 3,128
6,901 8,582 181,263 65,127 437,098	439,968 4,972 13,915 4,829 5,252	10,306 21,685 4,039 10,098 8,998	2,877 31,578 19,103 6,452 15,344	20,044 9,983 4,552 7,635 11,488	19,287 21,439 32,224 108,642 61,364	12,572 7,103 5,501 5,432 15,282	79,708 4,360 7,155 15,235 3,320	16,053 8,432 12,624 8,417 2,045
205 1,532 33,453 42,817 185,516	344,076 2,047 3,863 259 5,160	911 8,312 266 1,844 638	23,397 4,044 5,195 2,274	6,352 13,960 152 2,012 1,715	8,168 15,537 13,676 152,350 124,219	2,062 461 4,895 3,362	76,608 2,102 6,292 14,776 11,824	15,648 9,060 13,058 5,564 793
1,716 696 58,695 62,741 157,923	136,901 1,847 7,128 1,398 1,032	3,151 3,610 1,520 3,118 1,981	1,397 10,044 5,472 2,099 3,099	14,949 5,562 1,441 2,190 3,421	3,040 5,959 9,486 28,758 23,391	6,745 2,172 2,474 1,747 3,757	11.052 1,331 2,616 4,598 1,679	5,180 3,387 5,014 3,378 1,309
2,547 969 84,809 95,897 130,617	67,892 3,198 9,090 1,781	4,010 * 1,128 2,718 3,723	2,540 15,381 4,752 2,600 10,849	11,184 2,084 1,787 3,908	2,774	6,488 3,970 799 *	* * * *	6,772 1,942
629 1,125 91,259 59,182 81,002	150,065 1,899 5,669 1,333	3,600 1,150 1,777	3,196 8,192 1,457 3,913	5,935 * 860 1,476 1,286	6,482	3,307 2,760 1,225 5,901	* * * * *	3,316
31,306 15,266 1,160,150 1,036,416 1,885,891	2,236,982 59,882 91,481 21,130 25,435	45,731 54,082 31,401 48,095 37,713	25,182 131,951 77,082 42,279 95,099	78,489 53,054 22,354 33,614 44,984	62,729 100,367 137,714 696,971 446,433	83,077 31,475 23,287 25,549 56,270	321,000 34,369 28,554 67,793 16,151	78,099 61,675 88,135 54,197 28,588
Eckville Municipal Edmonton Beulah Home Edmonton General Edmonton Misericordia Edmonton Royal Alexandra	Edmonton University of Alberta Edson, St. John's Elk Point Wuncipal Elnora Municipal Empress Municipal	Fairview Municipal Fort Macleod Municipal Fort McMurray, St. Gabriel's Fort Vermilion, St. Therea Galahad, St. Joseph's	Glendon Municipal Grande Prairie Municipal Hanna Municipal Hardisty, St. Anne's High Prairie Municipal	High River Municipal Innisfail Municipal Jisay Municipal Jasper, Seton Killam General	Lac La Biche, St. Catherine's Lacombe Municipal Lamont, Archer Memorial Lethbridge Municipal Lethbridge, St. Michael's	McLennan, Sacred Heart Magrath Municipal Manning Municipal Mannville Municipal Mayerthorpe Municipal	Medicine Hat General Mundare General Myrnam Municipal Olds Municipal Oyen Municipal	Peace River Municipal Phincher Creek, St. Vincent's Ponoka Municipal Provost Municipal Radway, St. Joseph's

TABLE XV (B) - REVENUE AND EXPENDITURES FOR OPERATING PURPOSES-OTHER THAN MUNICIPAL HOSPITALS-1956

										NET IN	COME TMENT:				NET IN	COME	REQUISITIO OPERA	N OVER	REQUISI	
HOSPITALS	Total Revenue	Bad Debts	Courtesy	Contribution to Operation	Net Revenue	Expenditure	Net Depressation	Debenture Interest	Net Expenditure	Surplus	Deficit	Columns 2, 3 and 8	Expenditure on F.A.	Debenture Repayment	Surplus	Deficit	Over	Under	Over	Under
anff arrhead onnyville, K.H.P. ¹ tonnyville St. Louis algary General	119,985 147,293 23,809 109,965 3,111,632	1,540 2,058 2,500 5,472 78,725	2,427 17 407 2,812		123,952 149,351 26,326 115,844 3,193,169	130,775 149,341 30,159 131,093 3,926,794	12,702 16,434 2,496 14,738 70,000	16,299 8,724 181,442	118,073 116,608 27,663 107,631 3,675,352	5,879 32,743 8,213	1,337 482,183	3,967 18,357 2,517 14,603 262,979	131,820 5,706 3,317 3,424 1,146,750	11,500 6,347 174,202		129,908 2,820 7,171 16,161 2,066,114				
talgary Holy Cross talgary Salvation Army amrose aster Coaldale Community	1,661,541 72,296 311,893 73,421 57,613	38.141 23 4,357 1.887	9.145 3.241 1.365 1.286		1,708,827 75,560 317,615 76,594 57,613	1,772,495 96,592 336,838 88,126 49,476	113,038 17,537 21,644 2,208 4,814	5,672 10,167	1,653,785 79,055 305,027 85,918 44,662	55,042 12,588 12,951	3,495 9,324	52,958 3,264 15,889 3,173	3,993 28,989 2,292	15,000 72,340	10,659	697.185 6.759 79.634 41,486				
told Lake, John Nell aysland lesmarais idmonton Gereral idmonton Misericordia	34,222 76,286 8,808 1,942,504 1,630,372	1,505 1,119 72,175 129,905	473 4,906 13,281 1,331		35.727 77.878 13.714 2.027.960 1.761.608	37,306 76,343 11,308 1,960,859 1,583,049	983 6,402 400 135,976 67,355	110.969 36,536	36,323 69,941 10,908 1,713,914 1,479,158	7,937 2,806 314,046 282,450	596	1,505 1,592 4,906 196,425 167,772	139 5,197 44,172 20,608	106.000 125,000	1,148	2,240 2,100 32,551 30,930				
dmonton Royal Alexandra dmonton University dson ort MeMurray ort Vermillon	3.026.637 4.178,764 98,748 27,054 88,580	38,575 3,289 2,502 5,180	13,220 1,381 303 930 88		3.078,432 4.180,145 102,340 30,486 93,848	3,155,287 3,861,191 88,273 54,733 89,788	49,806 95,221 6,058 5,568 10,852	72.285 215.843 2.938 2.914	3.033.196 3.550,127 82,215 46,227 76,022	45,236 630,018 20,125 17,826	15.741	124,080 217,224 3,592 6,370 8,182	952,143 1,659,396 3,543 257 5,103	63,116 2,000	12,990	1,094,102 1,246,602 22,368				
ialahad (ardisty ligh Prairie asper (illam	67,172 74,649 155,189 59,087 72,553	1,483 42,421 1,436 —(40)	463 280 715 967 872		68,269 76,412 198,325 61,490 73,385	78,343 72,721 147,157 67,773 81,771	9,997 5,430 5,820 6,787 6,742	7.064 542 1.050	61,282 66,749 141,337 59,936 75,029	6,987 9,663 56,988 1,554	1.644	8,161 2,305 43,136 3,453 832	8,205 5,074 8,966 869 6,173	2,000 8,000 6,000	4,886	11,379 5,716 2,768 14,649				
ac La Biche amont* ethbridge St. Michael's icLennan tedicine Hat	115,002 227,654 715,924 164,337 514,726	5,603 4,926 14,238 2,041 15,580	7,673 5,649 1,753 918		120.605 240,253 735,831 168,131 531,224	146,257 236,015 756,257 175,418 498,149	14,715 8,746 54,626 22,989	19.062 2,229 15,906 16,620	112,480 225,040 685,725 135,809 498,149	8,125 15,213 50,106 32,322 33,075		24.665 14.828 35.813 29.414 16.498	16,962 4,855 49,625 5,256 1,883	13.188 3.597 21.400 4.351	2,301 14,694	46,690 8,067 56,735				
fundare incher Creek adways pirit Rivers t. Paul	51.675 96,333 38,020 114.825 152,940	1.143 (1,204) 282 5,029 3,790	2.725 1.391 641 349 1.387		55,543 96,520 38,943 120,203 158,117	52,673 107,331 40,050 118,237 167,210	3,947 13,852 876 14,737 15,222	841 7.621 1.123	48,726 92,638 39,174 95,879 150,865	6.817 3,882 24.324 7,252	231	3.868 1.028 923 12.999 6.300	3.061 2.810 796 227.357 2.032	7.000	44	1,950 223,025 3,080				
rochu egreville ilna§ Vestlock /etaskiwin	42,954 234,500 37,151 216,464 146,702	-(52) 11,031 -(96) -(5,859) 11,594	1,551 1,160 85 1,016 315		44,453 246,691 37,140 211,621 158,611	58,534 259,929 43,410 173,788 157,086	9.380 22.056 205 9.222 14,382	2,345 1.430 6.149	46,809 236,443 43,205 158,417 142,704	10.248 53,204 15,907	2,356 6,065	3,844 13,621 —(11) 1,306 11,909	2.11 ^d 3.75¢ 2.350 6.672 3.190	28.000 7.000 70.192	806	8,314 35,129 15,404 4,966				
Villingdon Devon ⁶ moky Lake [†]	55,148 15,100 20,101	1.830 —(197)	813 15		57,791 15,100 19,919	56,557 19,550 18,761	3,990		52,567 19,550 18,761	5,224 1,158	4,450	2,643 + (182)	1.640		941 1,340	4,450				
TOTAL	20,189,629	504.586	87,351		20,781,566	21,162,803	897.953	745,771	19,519,079	1.789.909	527.422	1.337.708	5.064,762	728.233	49.809	5,920.565				
GRAND TOTAL	27.021.567	607,630	96,206	1,279,375	26,446,028	28,232,196	1,511,349	1,009,228	25,711,619	1,923.069	1,188,660	1,713,064	5.631,943	1.009.422	61,463	7,684,023	1,556,120	2,731	144,524	342.9

^{*} Includes \$586.546 net out-patient earnings.

* Includes \$791.995 net out-patient earnings.

* Includes \$791.995 net out-patient earnings.

* Includes \$791.995 net out-patient earnings.

* 6.608 Inv. AdJ. not included in Total Revenue.

* 6.608 Inv. AdJ. not included in Total Revenue.

* 6.000 Coulci grant not included in Total Revenue.

* 6.000 Cytole grant not included in Total Revenue.

* 5.500 months only—dan. to June.

TABLE XV (A) - REVENUE AND EXPENDITURES FOR OPERATING PURPOSES-MUNICIPAL HOSPITALS 1956

										NET II	COME PMENT)			,		ncome I.D.	REQUIS	SITION	NET M REQUIS	
HOSPITAL	Total	Bad	Courtesy	M.H.D. Contribution to Operation	Net Revenue	Expenditure	Net Depreciation	Debenture Interest	Net Expenditure	Surplus	Deficit	Columns 2. 3 and 8	Expenditure on F.A.	Debenture Repayment	Surplus	Deficit	Over	Under	Over	Under
Athahasca Bassano Beaverlodge Bentley Berwyn	115,393 65,541 52,108 45,025 47,346	287 1,442 1,555 850 500	203 300 165 10 38	+(749) 8.819 9.044 17.182 574	116,634 58,464 44,784 28,703 47,310	116,454 64,022 57,265 45,677 45,673	11,694 2,732 4,385 6,853 8,936	6,650 5,063 1,152 1,170	98.110 61.290 47,817 37,672 35,567	18,524	2,826 3,033 8,969	7,140 1,742 6,783 2,012 1,708	12.666 599 33.364 667 2,952	7,101 6,287 3,200 2,000	5,083	8.383 5,167 49,467 14,846	8,819 18,331 17,182 4,573	749	3,652 2,336 9,656	9,132
Blairmore Brooks Cardston Carmangay Cereal	137,766 188,560 99,877 38,952 33,186	3,500 4.991 980	276 158 111 35 169	29.882 41,648 28,250 9,982 12,966	111,660 152,061 72,718 29,005 20,389	160.859 181,226 104,855 39,927 35,110	17,891 10,059 4,195 2,680	8.249 6.789 47	134,718 164,378 100,660 39,927 32,383		23,058 12,317 27,942 10,922 11,994	12,025 11,938 1,091 35 216	4,746 1,550 5,183 503 6,540	9,000 9,750 645		48,829 35,555 34,216 11,462 19,395	44.483 45,470 36.251 9.932 12,862		9.915 2.035	1,480 6,533
Claresholm Consort Coronation Didsbury Drumheller	123,460 53,892 50,290 114,481 306,946	-(1,976) 5,504	196 79 21 199	29,273 11,002 3,154 25,091 39,413	94,783 42,950 47,157 87,613 273,037	115.460 54.288 49,001 105,220 315,871	6,231 6,772 3,068 8,157 21,757	947 1,179 2,369 6,503	108,282 46,337 45,933 94,694 287,611	1,224	13.499 3,387 7,081 14,574	1.543 1.239 21 592 12,007	760 968 23,050 9,437	2.938 4.250 1.000 4.397 21,451		17,980 9,636 765 35,120 37,469	3,966 9,776 5,121 29,487 68,779		140 4,356 11,310	14.014 5.633
Eckville Elk Point Elhora Empress Fairview	57,236 151,403 37,245 50,164 80,839	470 15.814 152 4,000	12 695 30 133 29	11,997 5,749 11,228 14,348 9,836	45,721 162,163 26,199 35,949 75,032	61.556 168,279 38,758 43,810 91,640	9,429 14,553 4,013 2,556 11,617	2,200 6,195 1,552 2,025	49,927 147,531 33,193 41,254 77,998	14,632	4,206 6,994 5,305 2,966	2.682 22,704 1,734 133 6,054	8,511 4,540 166 5,926 7,918	3,321 4,500 2,200 3,000		18,720 17,112 11,094 11,264 19,938	11,997 14,160 14,178 12,074 5,189		3.084 710	6,723 2,952 14,749
Fort Macleod Glendon Grande Prairie Hanna High River	106.411 48,552 255.763 148.646 173.243	891 725 8,416 4,198 (21)	95 105 317	23,384 16,194 22,437 33,337	83,918 33,083 264,274 130,512 140,202	98.487 47,995 246,132 136,620 156,967	3.117 6.200 13.911 1.613 8,367	292 2,850 1,638 2,400 2,507	95.078 38.945 230,583 132.607 146,093	33,691	11,160 5,862 2,095 5,891	1.183 3.575 10.149 6,703 2,803	4,355 1,800 11,971 5,232 25,593	2,750 5,000 5,000 4,000	6.571	16,698 13,987 19,030 38,287	23,442 16,194 27,436 32,925	1.982	6.744 2.207 4,589 8.406	5,362
Innisfail Islay Lacombe Lethbridge Magrath	106,301 35,606 178,972 1,161,868 58,788	882 86 1,551 650	1.021	19.816 2.288 35.438 375.875 1,076	87,367 33,407 146,106 785,993 58,362	100.843 37.287 174.583 1.259.853 63.075	8,177 2,235 12,762 129,893 7,167	3,213 97,852 3,112	92,666 35,052 158,588 1,032,108 52,796	5,566	5,299 1,648 12,482 246,115	882 86 5,785 97,852 3,762	22,209 4,581 2,333 32,392 7,836	5.000 15.404 3.500		28,390 6,315 25,600 391,763 9,532	19,816 5,688 32,058 375,875 12,710		6.458 3.178	8.574 . 627 15.888
Manning Mannville Mayerthorpe Myrnam Dids	49.277 48.532 98.584 61.652 116.730	500 316 (1,148) 296 1,724	199 29 84 144	6.269 14.384 19.300 13.073 15.780	43,707, 34,464 78,165 48,959 102,818	62.047 44.910 115.898 67.808 120.046	11,205 4,384 9,563 12,669 4,699	3,993 3,069 3,413 3,598	46,849 40,326 103,266 51,726 111,749		3.142 6.062 25,101 2.767 8,931	4.692 316 1.950 3.793 5.466	5,036 804 14,910 1,105 78,684	4.776 5.256 4.097 5.840		17.646 7.182 47.222 11.762 98.921	11,044 14,384 28,410 18,693 31,913		7.202 6.931	6.602 18.812 67.008
Oyen Peace River Ponoka Provost Raymond	39,980 137,839 156,768 86,778 56,513	7.145 1.014 500 300	34 996 178 9	8,170 7,203, 39,435 15,893 18,958	31.844 138.777 118.347 71.563 37.864	41.580 142.356 162.860 102.056 50,834	3,456 9,997 20,268 7,963 2,620	516 1,914 7,137 4,386 1,098	37,608 130,445 135,455 89,707 47,116	8,332	5.764 17,108 18,144 9,252	550 10,055 8,151 5,064 1,407	596 3,698 6.488 11,334 2,121	3.456 2.700 11.227 5.000 2.083		10,366 8,121 42,974 39,542 14,863	12.142 16.904 39.435 30.893 18.777		1.776 8.783 3.914	3.539 8,649
Red Deer Rimbey Rocky Mountain House Smoky Lake Stettler	390,610 124,853 81,147 16,143 206,872	3,391 8,291 3,772	1,491 321 391	42,420 29,295 4,178 2,577 41,698	353,072 104,170 77,360 13,566 168,946	421.845 129.914 87.742 18.098 199,553	29,540 9,138 12,053 1,090 9,562	12.941 4,060 5,275 670 3,795	379,364 116,716 70,414 16,338 186,196	6.946	26,292 12,546 2,772 17,250	17,823 12,672 5,666 670 7,567	18,498 983 1,514 368 165	25.311 7.000 4.888 111 9,900		87,924 33,201 5,122 3,921 34,882	87,732 29,295 10,579 3,055 51,763		5.457 16.881	3,906 866
Taber Three Hills Tofield Turner Valley Two, Hills	222,542 81,098 94,840 73,172 81,234	3.190 718 1.111 1.824	13 65 91 123	40,882 21,976 8,358 8,143 4,370	184,850 59,853 87,658 66,944 76,987	261,486 82,066 88,803 73,012 89,869	24.174 9.466 7.400 3,929 11,935	12,205 2,599 3,144 292 4,183	225.107 70,001 78,259 68,791 73,751	9,399 3,236	40,257 10,148 1,847	15,395 3,330 4,320 2,207 4,306	2.249 941 19.085 48.154 44.441	15,962 5,680 5,152 2,000 7,407		73.863 20,069 19.158 54.208 52.918	59.094 27.631 13.917 12.941 19.277		7.562	5.241 41.267 33.641
Vermilion Viking Vulcan Walnwright	126,640 102,621 100,513 153,138	2.000 1.443 124 10.705	11 95 184	26.166 12,795 12,702 16.816	102,474 91,280 88,030 147,211	113,034 114,285 98,298 164,201	16.644 14.036 10.928 15.637	7.257 4,739 1.732 5,487	89,133 95,510 85,638 143,077	13.341 2.392 4.134	4,230	9,257 6,193 1,951 16,376	30.396 14,845 7.445 4.968	8,679 6,500 3,000 9,500		34.991 31.768 10.004 26.710	26.166 29.295 12.702 31.254		2.698 4.544	8.825 2.473
TOTAL	*6,831,938	103.044	8,855	1.279.375	5,664,462	7,069.393	613,396	263,457	6,192,540	133.160	661.238	375.356	567,181	281,189	11.654	1.763.458	1,556.120	2.731	144.524	342.939

^{*} Includes \$205,447 net out-patient earnings.

TABLE XVI - GRANTS AND PAYMENTS TO APPROVED HOSPITALS-1956

	PER	DIEM GR	ANT	EXTR DIEM	A PER GRANT		MATE	RNITY BE	NEFITS				PENSION E	BENEFITS		
APPROVED HOSPITALS	Grant	Non-Grant Days	Amount	Days	Amount	Days	Amount	Cases Discharged	Amount	Total	Days	Amount	Special Services Days	Amount	Total	Total
Athabasca Municipal Banff, Mineral Springs Barrhead, St. Joseph's Bassano Municipal Beaverlodge Municipal	12,332 7,948 15,711 6,330 4,373	382 2,145 203 61 365	12,332.00 7,948.00 15,711.00 6.330.00 4.373.00	11.102 4.090 14,598 5,791 3,768	5,551.00 2.045.00 7,299.00 2,895.50 1,884.00	1,699 579 1,635 648 600	10,703.70 3,647.70 10,300.50 4,082.40 3,780.00	224 85 222 65 106	4,704.00 1.785.00 4,390.00 1.105.00 1,802.00	15,407.70 5,432.70 14,690.50 5,187.40 5,582.00	2.144 562 4,271 581 510	13,507.20 3,540.60 26,907.30 3,660.30 3,213,00	1,933 426 3,294 452 388	4,542.55 1,001.10 7,540.70 971.80 834.20	18.049.75 4.541.70 34.448.00 4.632.10 4,047.20	19.967.40 72.148.50 19.045.00
Bentley Municipal Berwyn Municipal Crows Nest Pass Municipal, Biairmore Bonnyville, Katherine H. Prittie Bonnyville, St Louis	2,959 5,121 10,476 2,674 9,877	33 65 146 201 2.840	2,959.00 5,121.00 10,476.00 2,673.40 9,877.00	2,587 4,455 9,080 2,168 8,964	1,293.50 2,227.50 4,540.00 1,084.00 4,482.00	335 582 980 347 1,396	2,110.50 3,666.60 6,174.00 2,186.10 8,794.80	40 78 151 42 176	840.00 1,326.00 3,171.00 714.00 3,532.00	2,950.50 4,992.60 9,345.00 2,900.10 12,326.80	360 511 2.039 641 2.111	2,268.00 3,219.30 12,845.70 4,038.30 13,299.30	318 438 1,476 440 1,627	747.30 941.70 3.468.60 946.00 3.737.65	3.015.30 4.161.00 16.314.30 4.984.30 17.036.95	16.502.10 40,675.30 11.641.80
Brooks Municipal Calgary, Alberta Red Cross Calgary General Calgary Holy Cross Calgary, Salvation Army Grace	15.668 29,590 214.805 113,603 6,987	163 324 8.911 5,904 1,133	15,668.00 29,590.00 214,805.00 113,604,50 6,987.00	14,354 163,817 85,024 6,864	7,177,00 81,908,50 42,512,00 3,432,00	1,945 25,567 15,242 3,320	12,253.50 210,927.75 125,746.50 20,916.00	3,990 2,240 407	5,292.00 139,633.00 78,400.00 8,547.00	17,845.50 350,560,75 204,146.50 29,463.00	1,117 21,891 10,186	7,037.10 180,600.75 84,034.50	13.633 6,749	2,100.90 47,707.50 23,621.50	9,138.00 228,308.25 107,656.00	29,390.00 875,582,58
Camrosc, St. Mary's Cammore Cardston Municipal Carmangoy, Little Bow Municipal Castor, Our Lady of the Rosary	28,451 2,965 7,933 2,473 7,704	627 66 203 86 5	28,451,00 2,965,00 7,933,00 2,473,00 7,704,00	24.355 1.838 7,575 2.135 6.386	12.177.50 919.00 3.787[50] 1.067.50 3.193.00	3,788 366 1,216 111 732	26.137.20 2,305.80 7,660.80 699.30 4,611.60	442 49 178 14 89	11.050.00 833.00 3.026.00 238.00 1.869.00	37.187.20 3.138.80 10,686.80 937.30 6,480.60	4,245 1,126 1,025 396 1,071	29.290.50 -7,093.80 6.457.50, 2.494.80 6,747.30	3.116 486 737 189 923	7.945.80 1.044.90 1.584.55 406.35 1.984.45	37,236.30 8.138.70 8.042.05 2.901.15 8.731.75	15.161.50 30.449.35 7.378.95
Cereal Municipal Claresholm Municipal Coaldale Community Cold Lake, John Neil Consort Municipal		64 352 145 1,821 489	2.120.00 10,755.00 6,019.00 2,349.00 4,534.00	1,778 9,035 5,325 1,901 4,387	889.00 4,517.50 2,662.50 950.50 2,193.50	256 1,415 678 509 729	1.612.80 8.914.50 4.271.40 3.054.00 4.592.70	33 184 91 83 82	561.00 3.964.00 1,547.00 1,079.00 1,394.00	2,173.80 12,778.50 5,818.40 4,133.00 5,986.70	395 847 1.063 295 774	2,488.50 5,336.10 6,696.90 1,770.00 4,876.20	270 484 622 274 335	580.50 1.137.40 1.337.30 479.50 720.25	3.069.00 6.473.50 8.034.20 2.249.50 5.596.45	34.524.50 22,534.10 9.682.00
Coronation Municipal Daysland, Providence Desmarais, St. Martin's Devon Civic Didshury Municipal	5,476 8,049 690 1,398 8,786	9 50 2,230 12 120	5.476.00 8,049.00 690.00 1.398.00 8.786.00	5,336 7,358 186 905 7,899	2.668.00 3,679.00 93.00 452.50 3,949.50	532 523 67 214	3,351,60 3,294,90 422,10 1,239,00 6,230,70	61 62 8 29 131	1.037.00 1.054.00 136.00 349.00 2.751.00	4.388.60 4.348.90 558.10 1.588.00 8,981.70	729 658 67 60 872	4,392,70 4,334,40] 422,10 378,00 5,493,60	508 585 67 37 770	1.092.20 1.257.75 144.05 79.55 1,809.50	5,684.90 5,592.15 566.15 457.55 7,303.10	1,907.25
Drumheller Municipal Eckville Municipal Edmonton. Beulah Home Edmonton General Edmonton Misericordia	24,231 4,851 2,539 135,922 125,702	336 30 251 6.544 3.863	24,231.00 4,851.00 2,539.00 135,922.00 125,702.00	21.333 4.666 2.443 94,001 92,982	10.666.50 2,333.00 1,221.50 47,000.50 46,491.00	2,365 434 881 14,892 13,923	16.318.50 2.734.20 5.550.30 122.859.00 114.864.75	328 59) 84 1,974 2,023	8,200.00 1,239.00 1,428.00 69,090.00 70,805.00	24,518,50 3,973,20 6,978,30 191,949,00 185,669,75	3.097 888 15,594 15,234	21.369.30 5,584.40 128.650.50 125,680.50	1.986 756 12.116 11.142	5,064.30 1,625.40 42,389.00 38,975.00	26,433.60 7,219.80 171,039.50 164,655.50	19.377.00 10.738.80 545.911.00
Edmonton, Royal Alexandra Edmonton, University of Alberta Edxon, St. John's Elk Point Municipal Elnora Municipal	210,616 192,895 10,141 15,857 2,956	11.748 59.532 1.158 1.767 34	210.613.00 192.891.40 10.141.00 15,857.00 2,956.00	154,438 98,727 6,839 13,656 2,818	77.219.00 49,363.50 3,419.50 6.828.00 1.409.00	35,062 13,681 2,200 900 403	289,261,50 112,868,25 13,860,00 5,670,00 2,538,90	4.808 1.597 239 113 40	168,280.00 55,895.00 5,019.00 2,373.00 680.00	475.541.50 168.763.25 18.879.00 8.043.00 3.218.90	19.580 20.134 982 3.662 648	161,617.50 166,105.50 6.186.60 23.070.60 4,082.40	13.068 12.351 913 2.898 339	45.738.00 43.228.50 1.910.55 6.810.30 728.85	207,355.50 209,334.00 8,097.15 29,880.90 4,811.25	620.352.15 40.536.65 60.608.90
Empress Municipal Fairview Municipal Fort Macleod Municipal Fort McMurray, St. Gabriel's Fort Smith General	3.521 9,582 6,858 2,144 1,373	339 253 302 1,203	3,521.00 9,582.00 6,858.00 2,144.00 1,373.00	3.221 8.669 5,500 936 225	1.610.50 4.334.50 2.750.00 468.00 112.50	509 1,203 727 328 38	3.206.70 7.578.90 4.580.10 1.968.00 239.40	50 158 94 45 5	\$50.00 3,318.00 1,598.00 585.00 85.00	4.056.70 10,896.90 6,178.10 2,553.00 324.40	421 986 899 249 130	2.652,30 6.211.80 5.663.70 1,494.00 819.00	173 844 700 220 106	371,95 1,993.40 1,502.80 385.00 227.90	3,024.25 8,195.20 7,166.50 1,879.00 1,046.90	33.008.60 22.952.60
Fort Vermilion, St. Theresa Galahad, St. Joseph's Glendon Municipal Grande Prairie Municipal Hythe Sub Municipal	4,938 7,276 3,452 23,108 1,544	7,634 21 44 1,625 211	4,938.00 7,276.00 3,452.00 23,107.70 1,544.00	4,036 6,004 3,100 19,428 1,359	2,018.00 3.002.00 1.550.00 9.714.00 679.50	607 643 382 2,944 269	3,642,00 4,050,90 2,406,60 18,547,20 1,694,70	69 62 55 482 41	897.00 1.246.00 935.00 10,122.00 697.00	4,539.00 5,296.90 3,341.60 28,669.20 2,391.70	444 347 731 3,587 230	2,664.00 2,186.10 4,605.30 22,598.10 1,449.00	359 244 667 2.423 138	628.25 555.20 1,434.05 5,674.15 296.70	3,292.25 2,741.30 6,039.35 28,272.25 1,745.70	18,316,20 14,382,95 89,763,15
Hanna Municipal Hardisty, St. Anne's High Prairic Providence High River Municipal Innistali Municipal		90 42 3.550 292 72	14,155,00 8,033,00 16,295,00 14,546,00 9,130,00	12.351 7.031 10.043 13.461 8.423	6,175.50 3,515.50 5,021.50 6,730.50 4,211.50	1,553 609 1,871 1,820 1,057	9,783.90 3,836.70 11,787.30 11,496.00 6,659.10	177 56 287 248 149	3,717.00 952.00 4.879.00 4.216.00 3.129.00	13,500.96 4,788.70 16,666.30 15,682.00 9,788.10	2.631 1.343 1.108 1.784 1.596	16.575.30 8.460.90 6.980.40 11.239.20 10.054.80	1,815 892 913 1,164 1,175	4.264.60 1.917.80 2.145.55 2.735.40 2.761.25	20.839.90 10.378.70 9.125.95 13.974.60 12.816.05	26.715.90 47,108.75 50.933.10
Islay Municipal Jasper, Seton Killam General Lac Lu Biche, St. Catherine's Lacombe Municipal	3.582 5.172 7.479	67 889 59 684 104	3,582.00 5,172.00 7,479.00 12,009.00 15,724.00	3.553 1.792 6,970 9,945 14.402	1.776.50 896.00 3.485.00 4.972.50 7.201.00	167 789 1,179 1,344 2,366	1.052.10 4.970.70 7.427.70 8.467.20 14.275.80	17 901 115 182 272	289.00 1.530.00 1.955.00 3.638.00 5.712.00	1 341.10 6,500.70 9.382.70 12,105.20 19,987.80	797 209 1,090 2,420 2,081	5,021.10 1.316.70 6,967.00 15.243.20 13.110.30	477 179 748 2.037 1.917	1,025,55 384,85 1,757,80 4,664,95 4,504,95	6.046.65 1.701.55 8.624.80 19.908.15 17.615.25	14.270.25 28.971.50 48.994.85

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	PER	DIEM G	RANT	DIEM	A PER GRANT		MATE	RNITY BE	NEFITS				PENSION	BENEFITS		
APPROVED HOSPITALS	Grant Days	Non-Grant Days	Amaunt	Days	Amaunt	Days	Amount	Cases Discharged	Аточи	Total	Days	Amount	Special Services Days	Amount	Tatal	Tolal Payment
Lamont, Archer Memorial Lethbridge Municipal Lethbridge, St. Michael's Lloydminster McLennan, Sacred Heart	17,244 58,975 53,873 16,206 16,810	2,185 2,309 2,589 116 169	58.975.00 53.873.00 16,206.00	15,138 47,872 42,721 14,577 13,244	7,569.00 23,936.00 21,360.50 7,288.50 6,622.00	1.199 6.927 3.809 1.643 1.724	8,273.10 47,796.30 26,282.10 10,350.90 10,861.20	142 887 463 216 218	3,500.00 22,175.00 11,575.00 4,536.00 4,362.00	37,857.10 14,886.90	4,632 5,883 8,524 2,861 2,482	31,960.80 40,592.70 58,815.60 18,024.30 15,636.60	3.435 3,761 4.864 1.559 1.934	3,663,65	50,183.25 71,218.80	77,356,15 263,065,55 184,309,40 60,069,35 58,716,50
Magrath Municipal Manning Municipal Mannyille Municipal Mayerthorpe Municipal Medicine Hat Municipal	5.002 4.376 3.809 8.185 43.417	29 8 26 3,398	4,376.00 3,809.00 8,185.00	4,750 3,884 3,675 6,207 36,446	2,375.00 1,942.00 1,837.50 3,103.50 18,223.00	485 800 523 1,128 5,904	3,055,50 4,800.00 3,294.90 7,106.40 40,737.60	65 70 152 820	1,105.00 1,235.00 1,190.00 2,584.00 20,500.00	4,160.50 6,035.00 4,484.90 9,690.40 61,237.60	1.174 554 1.293 5.869	7,396.20 4,116.00 3,490.20 8,145.90 40,496.10	694 598 403 1,225 4,063	1,492.10 1,046.50 866.45 2,878.75 10,360.65	4,356.65	20.425.80 17.515.50 14,488.05 32,003.55 173.734.35
Mundare General Myrnam Municipal Olds Municipal Oyen Municipal Peace River Municipal	5.814 5.183 10.456 2.873 14.263	67 39 262 21 487	5.183.00 10.456.00	5,070 4,556 9,135 2,548 11,070	2,535.00/ 2,278.00 4,567.50/ 1,274.00 5,535.00/	510 442 1,510 511 2,000	3,213.00 2,784.60 9,513.00 3,060.30 12,600.00	54 46 214 11 223	918,00 782.00 4,494.00 1,037.00 4,683.00	4,131.00 3,566.60 14,007.00 4,097.30 17,283.00	1,496 1,546 1,550 155 1,153	9,424,80 9,739,80 9,765,00 976,50 7,263,90	1,396 1,346 1,047 151 841	3,001.40 2,893.90 2,460.45 354.85 1,976.35	12,633.70 12,225.45 1,331.35	24,906,20 23,661,30 41,255,95 9,575,65 46,321,25
Pincher Creek, St. Vincent's Ponoka Municipai Provost Municipal Radway, St. Joseph's Raymond Municipal	8.776 12.118 6.883 4,236 4.109	1.991 82 297 17	6,883.00 4,236.00	7,122 11,046 6,557 3,599 3,868	3,561.00 5,523.00 3,278.50 1,799.50 1,934.00	1,116 1,793 791 502 624	7,030.80 11,295.90 4,983.30 3,162.60 3,931.20	129 234 105 67 96	2,709.00 4,914.00 2,205.00 1,139.00 1,632.00	9,739,80 16,209,90 7,188,30 4,301,60 5,563,20	1,195 1,151 829 1,096 659	7,528.50 7,251.30 5,222.70 6,904.80 4,151.70	1.007 986 745 818 482	2,366.45 2,317.10 1,750.75 1,758.70 1,036.30	8,663,50	31,971,75 43,419,30 24,323,25 19,000,60 16,794,20
Red Deer Municipal Rimbey Municipal Rocky Mountain House Municipal Smoky Lake Municipal Spirit River, Holy Cross	33.099 10,611 7,601 3,344 12,756	1.155 185 852 29 155	10.611.00 7.601.00 3.344.00	26,426 8,398 6,089 3,115 11,014	13,213.00 4,199.00 3,044.50 1,557.50 5,507.00	5.118 1.335 1.156 520 1.194	35,314.20 8,410.50 7,282.80 3,276.00 7,522.20	688 191 160 80 143	17,200.00 4.011.00 3,204.00 1.360.00 2,431.00	52,514.20 12,421.50 10,486.80 4,636.00 9,953.20	3,168 2,276 1,196 1,415 2,606	21,859,20 14,338,80 7,534,80 8,914,50 16,417,80	2,497 1,905 1,017 1,273 1,885	6,367.35 4,476.75 2,330.95 2,736.95 4,052.75	18,815.55 9,865.75 11,651,45	127.052.75 46.047.05 30.998.05 21.188.95 48.686.75
St. Paul, St. Theresa Stettler Municipal Taber Municipal Three Hills Municipal Toffeld Municipal	14,600 18,147 19,236 6,210 8,438	2,796 234 530 244 22	18,147.00	13,788 16,154 16,496 5,461 7,286	6,894.00 8,077.00 8,243.00 2,730.50 3,643.00	2,265 2,188 2,965 893 987	14,269.50 13.784.40 18,679.50 5,623.90 6,218.10	228 286 391 109 134	4,788.00 6,006.00 7,831.00 2,279.00 2,814.00	19.057.50 19.790.40 26.510.50 7.904.90 9.032.10	2,967 2,341 2,027 250 1,534	18,692.10 14,748.30 12,770.10 1,574.30 9,664.20	2,355 1,750 1,372 248 1,216	5,534.25 4,112.50 3,129.60 579.55 2,857.60	18,860.60 15,899.70 2,153,85	64.777.85 64.875.20 69.889.20 18.995.35 33.634.90
Trochu, St. Mary's Turner Valley Municipal Two Hills Municipal Vegreville, St. Joseph's Vermilion Municipal	4,612 6,491 7,934 21,101 9,379	39 416 17 758 1,666	6,491.00 7,934.00 21,101.00	4,286 5,635 7,533 18,781 8,829	2,143.00 2,817.50 3,766.50 9,390.50 4,414.50	577 389 652 1,383 1,101	3.635.10 2,450.70 4.107.60 9,542.70 6,936.30	62 46 76 168 149	1,054.00 782.00 1,596.00 4,200.00 3,129.00	4,689.10 3,232.70 5,703.60 13,742.70 10,065.30	928 596 1,804 5,389 1,609	5,846,40 3,754,80 11,365,20 37,184,10 10,136,70	511 495 1,527 4,052 995	1.098.65 1.064.25 3.611.95 10.332.60 2.296.85	14,977.15 47,516,70	18,389,15 17,360,25 32,381,25 91,750,90 36,292,35
Viking Municipal Vilina, Our Lady's Vulcan Municipal Washwright Municipal Westlock Immaculata Wetaswikin Community Willingdon General	9,334 3,145 9,163 14,591 21,949 16,714 5,974	70 1.441 73 448 316 272 28	9,163.00 14.591.00 21,949.00 16,714.30	8,874 2,769 8,230 12,662 19,956 14,304 5,366	4,437.00 1,384.50 4,115.00 6,331.00 9,978.00 7,152.00 2,683.00	1,102 676 1,038 1,864 2,440 2,280 596	6,942.60 4,258.80 6,539.40 11,743.20 15,372.00 14,364.00 3,754.80	115 67 124 255 259 330 63	1.955.00 1.139.00 2,108.00 5.355.00 5.439.00 6.930.00 1.071.00	8.897.60 5.397.80 8,647.40 17.098.20 20.811.00 21,294.00 4,825.80	1,322 822 1,204 2,243 4,935 2,701 1,962	8,328.60 5,178.60 7,585.20 14,130.90 31,090.50 17,016.30 12,360.60	1.033 816 988 1.503 3.952 2.178 1.736	2,220,95 1,754,40 2,321,80 3,532,05 9,287,20 5,118,30 3,732,40	6,933.00 9,907.00 17.662.95 40.377.70	33.218.15 16.860.30 31.832.40 55.683.15 93.115.70 67.294.90 29.575.80
Total for Approved Hospitals	2,020,824	157,777	2,020,814.40	1.539.940	769,970.00	238,706	1,752,017.85	32,014	903,395.00	2,655,412.85	253,572	1,821,608.65	180.799	503,409.25	2,325.017.90	7,771,215.15
PRIVATE HOSPITALS: Mercoal Sexsmith Swalwell						313 841 332	1,565,00 4,205,00 1,494,00	41 83	205.00 415.00	1.770.00 4.620.00 1.494.00						1.770.00 4,620.00 1,494.00
Total for Private Hospitals		•				1,486	7,264.00	124	620.00	7,884.00			. (7.884.00
TOTAL FOR ALL HOSPITALS	2,020,824	157,777	2.020.814.40	1,539,940	769,970.00	240,192	.759.281.85	32.138	904.015.00	2,663,296.85	253,572	1.821.608.65	180,799	503,409.23	2,325.017.90	7.779,099.15

^{*} Not Available.

Not included in above: \$48,613.82.0 paid to the Calgary Alberta Red Cross Hospital on behalf of 20,058 orthopaedic days \$86,414.0 paid to the Calgary Ceneral Hospital on behalf of 3.272 psychiatric days \$36,414.0 paid to the Edmonton University of Alberta Hospital on behalf of 4.35 psychiatric days \$36,945.0 paid to the Edmonton University of Alberta Hospital on behalf of 4.35 psychiatric days Calgaria as follow Calgary and the Edmonton University of Alberta Hospital on Behalf of 4.35 psychiatric days \$45,945.0 paid to 4	36.414.00 28,945.00 3,092.40 2,922.60 7.138.60
	133,172.05

THE PROVINCIAL-MUNICIPAL HOSPITALIZATION

The Provincial-Municipal Hospitalization Program is put into effect by a municipality or municipal hospital district making agreement with its local hospital or hospitals for hospital coverage of its ratepayers and contract holders. Ratepayers and their dependents are automatically covered for hospital benefits through the taxes they pay on real property. Non-ratepayers who are residents of the province can obtain the same benefits by the purchase at any time during the year of a hospital contract ranging in price from \$8.00 to \$14.00.

The plan provides coverage for standard ward care and special hospital services. The charge to the patient for these services is \$1.00 per day for standard ward care and 30 cents to \$1.00 per day, depending on the type of hospital to which the patient is admitted, for special hospital services. Under the plan, hospitalization is provided as long as active treatment care is required.

The province pays 60% of the costs of this program. Its share of the costs amounted to \$4,480,968.34 in 1956, an increase of \$936,778.15 or 26.4% over 1955.

The total number of patients provided with standard ward care only, decreased sharply in 1956 and so did their average length of stay. The average length of stay for patients under the comprehensive program in 1956 was the same as in 1955. The number of patients and the related patient days under the comprehensive plan increased sharply. The patient days comprised 45.0% of the total hospital days in the approved hospitals of the province as compared to 32.7% in 1955.

The following table shows the utilization of hospital services in approved hospitals under the Provincial-Municipal Hospitaliz-

ation Plan for 1951-1956:

Year		Patients ed or Died	Patients D		Avera Day Stay	S	% of T Hosp Day	ital
1951:		357,321		46,779		7.6		20.0
1952:		500,006		65,862		7.6		31.4
1953								
1953: Standard Ward Care	553,666	660,468	72,372	85,526	7.6	7.8	33.0	39.3
Complete Care	106,802*	,	13.154	/	8.1		6.3	
1954: Standard Ward Care Complete Care	353,744 367,822	721,566	44,817 47,444	92,261	7.9 7.8	7.8	20.1	40.9
1955:								
Standard Ward Care	193,093	791.767	23,426	99,461	8.2	8.0	10.6	43.3
Complete Care	598,674	131,101	76,035	55, 101	7.9	0.0	32.7	
1956: Standard Ward Care		849,283	170	107,054	7.9	7.9		45.1
Complete Care	847,945		106,884		7.9		45.0	

Six months only. Special services benefits were added to the Provincial-Municipal Hospitalization Program effective July 1st, 1953.

On the basis of availability of coverage, the plan, as of December 31, 1956, was in effect in municipalities and municipal hospital districts which contain 98.3% of the population of the province, including Banff National Park but excluding other National Parks and Indian reserves. Of these, 98.2% had the complete plan available to them. In 1955, the plan was available to 97.5% of the population, in 1954 to 96% and in 1953 to 92%.

The following tables show the payments to hospitals and the percentage distribution of costs according to responsible parties under the Provincial-Municipal Hospitalization Plan:

HOSPITAL PAYMENTS ACCORDING TO HOSPITAL GROUP FOR STANDARD WARD CARE PLUS SPECIAL HOSPITAL SERVICES

	Dosmont	Darmant ha	PAYMENTS BY	PROVINCE	
Hospital Group	Payment by Patient	Payment by Local Authority	Reimbursement to Local Authority	Direct Payment** to Hospital	Total* Payment
A	\$2.00	\$10.25	\$6.15	\$1.50	\$13.75
B	\$1.80	\$ 8.30	\$4.98	\$1.50	\$11.60
C	\$1.60	\$ 7.10	\$4.26	\$1.50	\$10.20
D	\$1.50	\$ 6.80	\$4.08	\$1.50	\$ 9.80
E	\$1.30	\$ 5.90	\$3.54	\$3.30†	\$10.55

Adult payments, payments for children under 16 years of age are \$1.00 less. Per Diem and Extra Per Diem Grant.

Per Diem and Extra Per Includes Outpost Grant.

PERCENTAGE DISTRIBUTION OF COSTS TO RESPONSIBLE AUTHORITIES ACCORDING TO HOSPITAL GROUP

Patient's Percentage	Local Authorities' Percentage	Province's Percentage	Total Percentage
14.54%	29.82%	55.64%	100.00%
15.52%	28.62%	55.86%	100.00%
		56.47%	100.00%
			100.00 % 100.00 %
	Percentage 14.54%	Patient's Percentage Patient's Percentage Pe	Patient's Percentage Province's Percentage P

The following table gives the details of the amounts paid to Municipal Hospital Districts and to local municipal authorities by the province:

AUTHORITY Other	AUTHORITY Officional Participas National Participas National Na	CHILDREN UNDER 16	NEWBORNS	SP	SPECIAL	TOTAL	AMOUNT
12	12	1nuomA		Days	JunomA	Pays	JunomA
sge 12 4.829 16.777.32 1.360 3.681.15 7 8.40 3 12 2.754 2.422.70 1.87 5.681.15 7 8.40 1 2.754 2.422.70 1.87 7.66.81 7 8.40 1 2.754 2.427.73 1.981 5.465.89 46.80 46.80 1 2.749 83 1.988 1.988 4.65.20 46.80 1 2.244 2.247.81 1.098.82 2.465.89 46.80 46.80 1 1.2 2.477.71 1.20.88 2.465.89 46.80	12 47,81 150 167,773 150 175			194		3538	1,373.62
12	12 2,774 2,482,770 187 12 2,727 2,482,770 187 12 3,624 11,720,73 1,052 12 3,624 11,720,73 1,052 12 3,624 11,720,73 1,052 12 1,319 4,45,11 5,50 12 1,319 4,45,11 5,50 12 2,511 4,45,11 5,50 12 2,512 1,313 1,366 12 2,513 1,323 1,366 13 2,245 1,323 1,066 14 45 11 1,050 15 40 11 1,050 15 40 11 1,050 16 40 11 1,050 17 40 11 1,050 18 40 11 1,060 18 40 11 1,060 18 40 11 1,060 18 40 11 1,060 19 40 11 1,060 10 40		7	6,9		6,196	27,865.99
12	12				1,116.36	3,037	4,145.87
12	12 3,284 17,725 1,052			00		οĆ	37,990.13
12	12 299 1077.35 12 250 1077.35 12 250 1677.14 250 1677.14 250 1677.14 250 1677.14 250 1675.15 250			4,		4,	19,127.35
12 1.319 4,455.11 5.09 1.305.52 1.400.17 49.20 1.305.52 1.200.17 41 49.20 1.200.17 41 49.20 1.200.17 41 49.20 1.200.17 41 49.20 1.200.17 41 49.20 1.200.17 41 49.20 1.200.17 41 49.20 1.200.17 1.200.17 41 49.20 1.200.17	12 1.319 4,455 1.550 1.212 2,500 1.250 1.225 1.245 1.255			406			294.60
ge 12 2.511 4.407.71 550 1.665.14 4.41.04	12 2,519 4,045,14 557						7,727.87
12 2.309 9.966.81 1.366 5.119.26 8 9.60 12 2.213.90 1.364.81 1.366 5.119.26 8 9.60 12 2.524 3.213.90 1.76 454.08 3.60 12 1.548 1.362.42 1.362.47 46 5.5.20 12 2.520.51 10.966.35 968 3.600.00 94 112.80 12 2.521 10.966.35 988 3.600.00 94 112.80 12 2.521 1.367 2.301.987 2.187 5.840.07 13 2.521 2.301.987 2.187 5.840.08 14 2.521 2.521 2.521 2.521 15 2.521 2.521 2.521 2.521 15 2.521 2.521 2.521 2.521 15 2.521 2.521 2.521 2.521 15 2.521 2.521 2.521 15 2.521 2.521 2.521 15 2.521 2.521 2.521 15 2.521 2.521 2.521 15 2.521 2.521 2.521 15 2.521	12 2.309 9.966.81 1.366 12 2.309 9.966.81 1.366 12 3.164 0.176 12 3.164 0.176 12 2.521 0.966.35 12 2.521 0.966.35 12 2.521 0.966.35 12 2.521 0.966.35 12 2.521 0.966.35 13 2.640.37 14 3.167 15 2.9877 1.30,004.49 15 4.243 1.51.30 16 4.822 1.20,004.49 17 15 6.482 1.20,004.49 18 2.424 1.318 19 2.426 1.318 10 2.426 1.318 11 3.375.62 0.8874 12 2.9877 1.30,004.49 13 2.426 1.30,004.49 14 3.375.62 0.890.97 15 4.691 15.130.30 16 4.691 15.130.30 17 16 1.30.30 18 6.71.02 0.800.00 19 6.71.02 0.800.00 19 6.71.02 0.800.00 19 6.71.02 0.800.00 10			60 3,068	3,278.16	3,086	13,368.00
12 252 1844 185	12 954 3.184 1.785 1.785 1.785 1.785 1.785 1.285 1.785 1.785 1.785 1.885 1	IO.	<u>8</u>				21,663.13
12 3.169 11.324 2 1.683 4.55247 46 55.20 12 2.524 10.966 35 948 36.000 94 112.80 12 2.525 10.966 35 948 36.000 94 112.80 12 2.524 10.966 35 948 36.000 94 112.80 12 2.540 95 948 3.660 95 94 112.80 12 7.012 23.019.87 2.187 5.84407 4.480 12 4.524 2.524 3.137 3.137 3.137 13 2.9877 3.004.49 61.86 3.655 112.974.21 14 4.40 3.204 3.204 3.204 15 4.549 3.455 3.204 3.204 16 3.204 3.204 3.204 17 4.40 3.204 3.204 18 4.40 3.405 3.204 19 4.465 3.204 3.204 10 4.455 3.204 3.204 11 2 4.691 15.130.32 3.841 12 2.415 3.080 3.08 13 3.40 3.404 14 4.465 3.404 3.404 15 2.415 3.080 3.08 16 3.404 3.404 17 3.404 3.404 18 4.405 3.404 19 4.405 3.404 10 4.405 3.404 10 4.405 3.404 10 4.405 3.404 11 5.405 3.404 12 2.415 3.08 3.404 13 3.404 14 3.404 3.404 15 3.404 3.404 17 3.404 3.404 18 3.404 19 3.404 3.404 10 3.404 3.404 10 3.404 3.404 11 3.404 3.404 12 3.404 3.404 13 3.404 14 3.404 3.404 15 3.404 3.404 17 3.404 3.404 18 3.404 18 3.404 19 3.404 3.404 10 3.404 3.404	12 1,581 1,582 1,683 1,683 1,683 1,683 1,683 1,684 1,587						4,948.14
12	12						10,687.53
12	12			3,489	6,280.20	3,583	20,989.35
12 29 1.059 96 31 11.754	12 298 1.059.96 3.1		4				39,320.04
ss 12 64,852 282,101.13 9,919 37,189.38 888 1,065.60 ss 12 29,877 130,004.49 6,186 23,187.50 318 381.60 381.60 ind Referred 12 1,777 1,028.46 3655 12,297.72 31,35.60 135.60 135.60 135.60 135.60 135.60 135.60 135.60 135.60 135.60 140.65 140.65 12 24,40 26,40 26,40 26,40 26,40 26,40 26,40 27,40 27,20 26,40 27,40 27,20 26,40 27,40 27,20 26,40 27,40 27,20 26,40 27,40 27,20 26,40 27,40 27,20 26,40 27,40 27,20	ss 12 29,877 100,004 49 6,186 10 10 10 10 10 10 10 1			32	461.88	329	1,612.92
Referred 12 2.98777 130,004,49 6,186 2.34,197,20 3.18 3.54,00 4.00 <th< td=""><td>Referred 12 12,9,877 130,004,49 6,186 12 1,717 1,00,004,49 6,186 3,655 12 1,5,477 6,4,078,66 3,655 615 12 4,233 15,183,66 3,655 615 12 4,233 15,183,66 3,655 94 12 2,933 1,375,62 94 874 12 2,933 3,711,90 164 12 4,691 177,00 80 12 4,691 177,00 80 12 4,691 130,00 179 12 2,415 8,071,02 308</td><td></td><td>Ħ</td><td>60 74,759</td><td>-</td><td>75,659</td><td>454,922.31</td></th<>	Referred 12 12,9,877 130,004,49 6,186 12 1,717 1,00,004,49 6,186 3,655 12 1,5,477 6,4,078,66 3,655 615 12 4,233 15,183,66 3,655 615 12 4,233 15,183,66 3,655 94 12 2,933 1,375,62 94 874 12 2,933 3,711,90 164 12 4,691 177,00 80 12 4,691 177,00 80 12 4,691 130,00 179 12 2,415 8,071,02 308		Ħ	60 74,759	-	75,659	454,922.31
12 15.477 64.078.66 3.655 12.974.21 113 135.60 12 137.40 12 14.08.64 14.18 14.18.37 12 14.08 14.18 14.18.37 14.18.38 14.18.37 14.18.38 14.18.38 14.18.38 14.18.38 14.18.38 14.18 14.18.38 14.18 14.18.38 14.18 14.18.38 14.18 14.18.38 14.18 14.18.38 14.18 14.18.38 14.18 14.18.38 14.18 14.18.38 14.18 14.18.38 14.18 14.18.38 14.18 14.18.38 14.18 14.18.38 14.18 14.18.38 14.18 14.	15 477 64 078 66 3,655 15,143						
12	12						
12	12 4,086 13,375,62 948 12 2,993 9405,38 874 12 1,090 3711,90 164 12 4,691 177,00 80 12 2,65 630,00 136 12 2,415 8,071,02 308						
12 2,993 9,405.38 874 2,246.32 32 38.40 12 1,090 3,711.90 164 446.52 32 38.40 12 1,090 3,711.90 164 446.52 32 38.40 12 1,090 3,711.90 164 446.52 32 38.40 12 1,000 3,711.90 164 446.52 32 38.40	12 2,993 9,405.38 874 12 1,090 1,171.00 80 15 12 2,05 1711.00 164 171.00 171 12 2,05 630.00 136 171 12 2,05 630.00 136 171 12 2,05 630.00 136 170 170 170 170 170 170 170 170 170 170						
12 1,090 3,711,90 164 446,52 12 1,090 3,711,90 164 424,61	12 1,090 1,711 1,000			40 3,867			
12 4.691 15,130,32 719 1,924,051 12 2.05 680,00 136 335,16 12 2,415 8,071,02 308 877.53	12 4691 15130.32 719 e 12 205 15130.32 719 12 2,415 8030.00 338			12,20		Ā	597.17
age 12 205 630.00 136 345.16 12 2,415 8,071.02 308 857.53	e 630.00 136 132 2.415 8071.02 308			5,392		, or	23,053.05
000,100 000 20,110,0 015,2 21	20.1.10.0 20.1.10.0		-		211.86	2	11,736.03
D. 679 1,754.82 36 43.20	12 3.171 10,326.69 679		36 43	20 3,843		3,886	15,788.43

TABLE XVII - PROVINCIAL HOSPITALIZATION PAYMENTS TO LOCAL AUTHORITIES -- 1956 (Con'td)

	5	ADULT AND OV	LT 16 OVER	CHII	CHILDREN UNDER 16	NEW	NEWBORNS	SPE(SERV	SPECIAL	TOTAL	AMOUNT
LOCAL AUTHORITY	Number of Participatin Months	Days	JunomA	Days	JunomA	Days	} Junom₩	Days	JunomA	Days	tnuomA
Crows Nest Pass M.H.D.	122	5,246	17,302.13	698	1,903.62	59	70.80	7.0 n	6,876.00	6,003	26,152.55
Delburne M.H.D.	222	1,185	3,996.54	225	639.75	222	26.40	1,409	1,590.28	1,432	6,252.97
Drumheller M.H.D.	127	3,683	42,226.92	2,416	7,174.32	544	52.80 64.80	14,155	5,355.30	14,642	70,173.60
Eckville M.H.D. Edmonton City with General	152	2,760	9,093.42	069	1,806.17	18	21.60	3,443	3,444.84	3,468	14,366.03
Edmonton City with Misericordia	122	26,188	113,901.13	6,298	23,614.50	1,097	402.40	32,486	58,467.90	33,583	196,392.73
Edmonton City with Royal Alexandra Edmonton City with University	12 12	35,714	155,343.57	10,494	39,455.63	708	849.60	46,239	83,217.60	46,916	278,866,40
Edmonton City Emergency and Referred	12	2,141	7,860.31	218	685.16	3,0	00.000	2,348	3,136.04	2,359	11,681.50
Edson, Town Elk Point M H D		552	2,130.93	9119	373.71	C.	00 67	671	996.84	671	3,501.48
Elnora M.H.D.	122	1,007	3,507.99	314	859.17	200	2.40	1,321	1,491.52	1,323	5,861.08
Empress M.H.D.	122	1,661	5,387.64	325	838.50	18	21.60	1,986	1,920.24		8,167.98
Entwistle, vinage Evansburg, Village	122	183	775.76	900	217.98			160	288.00	160	1.418.45
Fairview M.H.D.	12	5,166	17,576.82	1,225	3,321.06	25	30.00	6,391	7,706.52	6,416	28,634.40
refintosn, vinage Flagstaff M.D.	122	189	23.826.181	2.967	7.745.67	er.	3 60	10 105	301.32	10 108	1,031.19
Foremost, Village	121	8	117.24	F	47.53			41	65.52	100	230.26
Ft. Saskatchewan, Town Foresthing, Village	122	554	2,941.68	149	535.80	526	31.20	861	1,469.88	00 00	4,978.56
Forest Lawn, Town	121	1,234	5,365.73	856	3,210.00	32	38.40	2,087	3,756.60	2,122	12,370.73
Forty-Mile M.D. Galahad Village	12	1,732	6,177.14	298	885.64	9		1,947	2,778.84	2,036	9,848.85
Glendon M.H.D.	125	1,653	5,629.80	497	1,297.47			2.150	2.256.39	2.150	9.183.66
Grande Prairie M.H.D.	122	12,412	42,541.38	3,309	8,853,88	52	62.40	15,697	18,662.42	15,773	70,120.08
Granum, 10wn Hanna M.H.D.	122	6.430	27 249 66	1 365	25.80			7 751	83.16	7 705	301.77
Hay Lakes, Village	122	76	294.15	19	49.26			1, 101	145.08	6,135	488.49
High Prairie, Town	12	466	1,612.01	163	417.53			596	732.24	629	2,761.78
High River M.H.D. Holden M.H.D.	122	8,908	30,457.69	1,122	3,052.24	133	135.60	9,973	12,119.16	10,143	45,764.69
Hughenden M.H.D.	121	2.074	6.930.51	533	1.402.05		1	1.782	2 661 30	2 607	3,118.5
Innisfail M.H.D.	122	4,714	15,565.18	844	2,257.62	27	32.40	5,537	6,420.60	5,585	24,275.80
Iring M.H.D. Islay M.H.D.	121	1,614	5,509.17	262	2.430.06	36	38.40 43.20	1,876	3,052,44	3.018	8,380.85
Irvine, Town	12	182	644.28	13	38.22			195	280.80	195	963.30
Jasper Place, Town	10	7 090	שטע שטע טפ	CHO X	10V 02F 2F	TOC	100 000	11 000		110	100 100

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830.48 10,558.39 11,556.38 2,653.13 2,067.38 3,930.68 1,774.49 1,774.59 1,774.59 1,774.59 1,774.59 1,774.79 1,7
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43.20 115.60 31.24 111.60 114.00 114.00 21.60 21.60 21.60 21.60 22.40 92.40 19.26 16.80 60.00 60.00 60.00
20 20 20 20 20 20 20 20 20 20 20 20 20 2
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1,506 1,506
25,226.38 28,282.38 28,528.38 28,528.38 7,118.85 7,118.85 7,118.85 7,117.25
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Kitscoty, Village Lac Isa Biche, Town Lacombe M.H.D. Lacombe M.H.D. Lacombe M.H.D. Leduc, Town Lethbridge M.H.D. with Coaldale Lethbridge M.H.D. with Michael's Lethbridge M.H.D. with St. Michael's Lethbridge M.H.D. with St. Michael's Lethbridge M.H.D. Lloydminster M.H.D. Magrath M.H.D. Magrath M.H.D. Magrath M.H.D. Magrath M.H.D. Manning M.H.D. Mayerthorie M.H.D. Mayerthorie M.H.D. Mayerthorie M.H.D. Mayerthorie M.H.D. Manning M.H.D. Manning M.H.D. Milbett, Village Milbett, Village Milbett, Village Milbett, Village Milbett, Village Milbett, Town Municipal Affairs I.D. 53 and 35 Municipal Affairs I.D. 78 and 95 Municipal Affairs I.D. 78 and 95 Municipal Affairs I.D. 78 and 146 Municipal Affairs I.D. 173 and 146 Municipal Affairs I.D. 125 and 126 Municipal Affairs I.D. 127 Municipal Affairs I.D. 128 Municipal Affairs I.D. 138 Municipal Affairs I.D. 147 Municipal Affairs I.D. 148 Municipal Affairs I.D. 148 Municipal Affairs I.D. 148

	50	DIVISION OF HOSPITAL AND MEDICAL SERVICES	
AMOUNT	JunomA	8,717.05 1,517.88 1,517.	888,661 4,480,968.34
TOTAL	Баув	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	888,661
SPECIAL	innomA	2.236.286.286.286.286.286.286.286.286.286.28	873,1991,261,649.04
SPE	Days	4.0044 4.0044	875,1991
NEWBORNS	JunomA	8.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9	8,920.40
NEWI	Days		8,189
CHILDREN UNDER 16	³moomA	3,473,438 1,734,38 1,734,38 1,734,38 1,735,256 1,735,266	551, 194, 12
CHI	Days		179,062
ADULT 16 AND OVER	JunomA	10.707 10.707 10.707 10.708	2,652,556.18
ADU	Days	3.5.883 3.5.88	(UT,410)
2	Number of Participating Months	122222222222222222222222222222222222222	
	LOCAL AUTHORITY	Pincher Creek, Town Provoka M.H.D. Provost M.H.D. Provost M.H.D. Public Welfare, Metis Colony No. 3 Public Welfare, Metis Colony No. 3 Public Welfare, Metis Colony No. 3 Public Welfare, Metis Colony No. 7 Uublic Welfare, Metis Colony No. 7 Uublic Welfare, Metis Colony No. 7 Uublic Welfare, Metis Colony No. 10 Radway, Village Raymond M.H.D. Red Deer M.H.D. Red Deer M.H.D. Red Deer M.H.D. Sundy Lake M.D. Sindy River M.D. Sindy River M.D. Spirit River M.H.D. Spirit River M.H.D. Spirit River M.H.D. Spirit River M.H.D. Studen R.H.D. Studen R.H.D. Studen R.H.D. Studen R.H.D. Studen M.H.D. Studen M.H.D. Thorshy Courty Throrid, Village Thrown M.H.D. Throw M.H.D. Throw M.H.D. Throw M.H.D. Throw M.H.D. Vegreville M.H.D. Washburg, Village Westskiwin Gliy Westskiwin Gliy Willingdon M.H.D.	TOTAL

E.

THE MATERNITY HOSPITALIZATION PROGRAM

Maternity hospitalization is available to any woman who is a resident of Alberta or whose husband is a resident of the province. This service provides standard ward accommodation for the mother and the infant up to a maximum of twelve days for any one confinement.

Under this program, Alberta hospitals are paid at the following rates by the government, varying according to the class of hospital:

Group A Hospitals Group B Hospitals Group C Hospitals Group D Hospitals	\$11.25 \$10.90 \$ 9.30 \$ 9.30	per per	day day	plus plus	\$25.00 \$21.00	per per	case case
Group E Hospitals	\$10.80*	per	day	plus	\$13.00	per	case

^{*} This includes Outpost Grant.

The province's expenditure on the Maternity Hospitalization Program amounted to \$2,663,653.30 in 1956, an increase of \$120,683.40 or 4.7% over the preceding year. This percentage increase is considerably less than the percentage increase (16.7%) which occurred in 1955 over 1954. This is due to the fact that in 1956 no change took place in the rates paid to hospitals on behalf of maternity patients, while a significant upward revision of rates occurred in 1955.

In addition, the Maternity Hospitalization Program provides a grant of \$40.00 to any woman resident who is confined in her own home. In 1956, expenditures on this grant amounted to \$9,280.00 on behalf of 232 mothers. This is \$200.00 and 5 mothers less than in 1955.

The average length of stay of maternity patients was 7.5 days in 1956, the lowest since figures were first compiled in 1951 when the average stay was 8.4 days. This decrease in the average length of stay of maternity patients has tended to offset increases in maternity days due to the growth of the province's population and the rising birth rate experienced during this period. This is borne out by the fact that the percentage of maternity days to total hospital days has declined to 12.6% in 1956 from 14.0% in 1951. Meanwhile, the percentage of maternity patients to total patients increased from 14.6% in 1951 to 14.7% in 1956.

As between hospital groups, 52.1% of the maternity patients who were discharged or died in 1956 were in group A hospitals, 12.3% were in group B hospitals, 26.9% in group C hospitals, and 8.7% in group D and E hospitals. The average stay of maternity patients in group A hospitals was 7.2 days, which is markedly lower than the average stay in B hospitals (7.8 days), and in the other rural hospitals (7.9 days).

F.

HOSPITALIZATION AND TREATMENT SERVICES FOR SOCIAL SERVICE RECIPIENTS

There was no change in the program of health care for Social Service Recipients in the province during 1956. Persons eligible under this program receive complete hospitalization at government expense without charge except for a few exclusions. The treatment services include medical care, dental services, optical services and special services, such as physiotherapy, etc., on approval of the Department.

The average number of Social Service Recipients in the province was 36,533 in 1956, an increase of 910 over 1955. At December 31, 1956, this group comprised the following:

	Recipients	Spouses	Dependents and Children	Total
Old Age Security Old Age Assistance Mother's Allowance Widow's Allowance Blind Pension Total	19,880 5,306 1,754 766 395 28,101	2,078 1,101 118 3,297	303 294 4,387 6 128 5,118	22,261 6,701 6,141 772 641 36,516

Provincial expenditures on behalf of the group were as follows:

Hospitalization Medical Care Dental Care Optical and Optometric Services Other Treatment Services	\$2,325,017.90 603,839.48 146,385.30 82,762.81 2,369.00
Total	\$3,160,374.49

These expenditures were \$97,546.01 more than the expenditures in 1955. The average per pensioner expenditure for the group (including \$380,358.00 spent in per diem grants on behalf of pensioner hospitalization) was \$96.91 in 1956. The comparable figures for 1955 and 1954 are \$94.95 and \$85.23 respectively. The details concerning the various benefits are discussed under separate headings below.

1. Hospitalization of Social Service Recipients

The daily hospitalization payments under this program, including the \$1.50 per day paid in per diem grants are as follows:

Hospital Group	First 20 Days	Subsequent to 20th day
Group A Hospitals Group B Hospitals Group C Hospitals Group D Hospitals Group E Hospitals	 \$13.25 per day \$10.95 per day \$10.15 per day \$ 9.95 per day \$11.05 per day*	\$9.75 per day \$8.40 per day \$7.80 per day \$7.80 per day \$9.30 per day

^{*} Includes Outpost Grant of \$1.80 per day.

During 1956, the pensioners spent a total of 253,572 days in hospital, an average of 6.9 days for every pensioner eligible as compared to 5.7 days in 1951. The examination of the data presented in Table XVIII reveals, however, a decreasing tendency in the pensioner's average stay in hospital, from 15.5 in 1951 to 14.8 in 1956.

The increase, therefore, in the pensioner's hospital days can largely be attributed to the rise in the admission rate of pen-

sioners, which went up from 37.3% in 1951 to 46.9% in 1956. However, the study of the pensioners in their respective groupings shows that while old age pensioners had experienced a yearly increase in their rate of admission ever since 1951, the admission rates for the other three pension groups decreased in 1956 as compared to 1955 but were higher than in 1951.

2. Medical Care of Social Service Recipients

The provincial program of medical care to this group remained unchanged from 1955, with the province continuing to pay the Alberta College of Physicians and Surgeons \$1.37½ each month for every eligible individual under the plan and the latter looking after the disbursement of the funds to the individual practitioners concerned for medical services rendered to pensioners. In 1956, the province spent \$603,839.48 on this service as compared with \$586,480.09 in 1955. Administration costs to the College of Physicians & Surgeons were \$22,074.85 of the total amount received or 3.6%.

3. Dental Services for Social Service Recipients

This program likewise remained unchanged from the previous year. The province continued paying the Alberta Dental Association $33\frac{1}{3}$ cents each month for every eligible individual under the plan with the Association looking after payments to individual dentists for services rendered to pensioners. This service cost the province \$146,385.30 in 1956 as compared with \$142,176.97 spent in the previous year. Administration costs to the Dental Association were \$11,161.96 or 7.5% of the total amount received.

SOCIAL SERVICE RECIPIENTS UTILIZATION OF DENTAL SERVICES—1953 - 1956

	N	UMBER	OF CLA	IMS	AS	OF %	ELIGIB	LE
	1953	1954	1955	1956	1953	1954	1955	1956
Old Age Group	3,001 2,085 155 104	2,973 2,120 135 127	3,442 2,387 158 129	3,356 2,449 151 147	11.4 40.2 24.0 18.1	11.0 38.6 22.5 18.6	12.2 40.1 25.4 17.3	11.6 39.9 24.3 18.5
Total	5,345	5,355	6,116	6,103	16.3	15.9	17.2	16.7

On examining the utilization of dental services by pensioners it is noted that it was lower in 1956 than in 1955 but higher than during 1954 and 1953. Most of the claims occur in the old age and the mother's allowance groups, with the former having about 55% of the total claims, and the latter slightly more than 40%. This high rate of utilization in the mother's allowance group is due to the high percentage (71.4%) of children in it.

4. Optical Services for Social Service Recipients

A total of 6,699 accounts for eyeglasses, at a cost of \$61,382.31, were approved and paid for in 1956. This is a 10.0% increase in expenditure over the previous year. Total payments to optometrists in 1956 was \$21,380.50 for 4,424 claims as against \$19,376.71 for 4,286 claims in 1955, an increase of 10.3% in

TABLE XVIII—HOSPITAL UTILIZATION OF SOCIAL SERVICE RECIPIENTS BY GROUPS—1951-1956

	1	51	16.2 7.5 14.8	15.5
		2 1951	55 16	
	TAY	195	15.9	15.
	SPIT.	1953	16.2 7.6 14.4 12.2	15.5
3	AVERAGE STAY IN HOSPITAL	1954	15.7 7.0 15.8 11.9	15.0
	AV	1955	16.4 7.1 14.8 11.4	15.6
		1956 1955 1954 1953 1952 1951 1956 1955 1954 1953 1952	15.4 16.4 15.7 6.9 7.1 7.0 17.1 14.8 15.8 12.5 11.4 11.9	46.9 46.1 44.7 42.5 39.3 37.3 14.8 15.6 15.0 15.5 15.2
	AS	1951	7 41.8 5 18.0 7 38.8	37.3
	IZED	1952	49.7 47.3 43.7 41.8 19.3 18.6 18.5 18.0 48.9 44.0 36.4 38.8 47.4 35[8 19.7	39.3
	ITAL OF E	1953	47.3 18.6 44.0 35 8	42.5
	NUMBER HOSPITALIZED AS PERCENTAGE OF ELIGIBLE	1954	49.7 19.3 48.9 47.4	44.7
	BER	1955	51.7 18.9 50.6 45.1	46.1
	NUM	1956	53.2 18.2 47.8 38.4	46.9
	-	1951	8,828 885 291	0,004
	IZED	1952	0,869 921 273 37	2,100
	NUMBER HOSPITALIZED	1954 1953 1952	14/28.299 26.987 26.987 26.348 24.831 21.129 15.399 14.640 13.410 12.488 10.889 11 5.954 5.497 5.189 4.931 1.117 1.125 1.102 1.102 1.069 921 22 623 689 647 750 7.97 315 2.89 284 273 6 747 682 575 188 7.80 396 337 323 206 37	35,623 33,765 32,757 30,750 26,790 17,119 16,418 15,087 13,921 12,100 10,004
		1954	3,41011 1,061 293 323	5,087 1
		1955 1	4,640 1 1,126 315 337	3,418 1
	Ż	1956	5,399 1, 1,117 297 306	11611,7
		1951	129 18 911 1 750	790 17
			8 4,9	0 26,7
	IBLE	1952	24,83 4,98 75 18	30,75
	ELIG	1953	26,348 5,189 645 575	2,757
	AVERAGE ELIGIBLE	1954	5,497 5,497 599 682	3,765
	AVE	1955	8,299 5,954 623 747	5,623 3
		1956	28,974 2 6,141 622 796	36,533 3
			Old Age Group Mother's Allowance Blind Pension Widow's Allowance	TOTAL

expenditures. Payment to the medical eye specialists is a part of the over-all medical program.

5. Other Treatment Services

These include physiotherapy, nursing services, chiropody and chiropractic services, and are provided on the recommendation of the patient's physician and with the approval of the Director of Medical Services. Expenditures on these services amounted to \$2,369.00 in 1956.

G.

POLIOMYELITIS HOSPITALIZATION AND TREATMENT PROGRAM

This program and the Orthopaedic Hospitalization Program were the only two services of the entire Provincial hospitalization program which showed a decrease in expenditures in 1956. Total payments by the province to approved hospitals on behalf of poliomyelitis patients amounted to \$566,588.54 in 1956, a drop of 10.5% from the expenditure in the preceding year. The breakdown of these payments with 1955 figures included for comparison was as follows:

POLIOMYELITIS PAYMENTS

	1955	1956
Isolation Hospital Care	\$ 27.840.05	\$ 7.563.50
Post-isolation Hospital Care	534.517.15	495.849.60
Medical Care in Hospital	98.212.50	93.581.95
Medical Supervision in Hospital	10.450.00	7,100,00
Appliances and Outpatient Services	43,471.73	35,940.64
Total	\$714,491.43	\$640,035.69

Of the total payments for medical care in hospital for poliomyelitis patients, a sum of \$42,734.00 was paid to the College of Physicians and Surgeons for medical care of respirator cases, \$30,713.15 was paid to surgeons for operative procedures, and the remaining \$20,134.80 was expended for other medical care cases.

The rates paid to hospitals for the Isolation and Post-isolation care of poliomyelitis patients remained unchanged from the year before and were as follows:

ISOLATION PERIOD

		PROVINCE PAYS PER DAY					
	Patient pays per day	For Patients Requiring Ordinary Bed Care Only	For Tracheotomy Cases Requiring Bed Care Only	For All Respirator Cases			
A B C D E	\$2.00 \$1.80 \$1.60 \$1.50 \$1.30	\$10.25 and \$1.00 \$ 8.30 and \$1.00 \$ 7.10 and \$1.00 \$ 6.80 and \$1.00 \$ 5.90 and \$1.00	\$30.00 and \$1.00 \$30.00 and \$1.00 \$30.00 and \$1.00 \$30.00 and \$1.00 \$30.00 and \$1.00	\$40.00 and \$1.00 \$40.00 and \$1.00 \$40.00 and \$1.00 \$40.00 and \$1.00 \$40.00 and \$1.00			

Class of Hospital

A B

Patie

Pays Day

otlont —	PROVINCE	PAYS PER DAY	
atient ys Per Day	For Patients Requiring Ordinary Bed Care Only	Extra Payments for those in Respirators	For Medical Care
Nil	\$10.25 and \$1.00	\$15.00	60¢
Nil	\$ 8.30 and \$1.00	\$15.00	60¢
Nil Nil	\$ 7.10 and \$1.00	\$15.00	60¢
	\$ 6.80 and \$1.00	\$15.00	60¢
Nil	\$ 5.90 and \$1.00	\$15.00	

POST-ISOLATION PERIOD

The vast majority of the patients in 1956 were treated in the hospitals at Edmonton, Calgary and Banff. Only a very few poliomyelitis cases were treated in the other hospitals, mostly during the isolation period. The greatest number of patients were treated at the University Hospital in Edmonton, which absorbed more than half of the total payments made by the province to approved hospitals on behalf of poliomyelitis patients.

ALBERTA MUNICIPAL HOSPITAL DISTRICTS

As of December 31, 1956, there were 72 municipal hospital districts operating in the province with 56 of them operating their own hospitals and the remaining 16 functioning under agreements with other hospitals. In 1955 there were 70 municipal hospital districts with 55 of them operating their own hospitals.

The municipal hospital districts of this province provide a comprehensive hospitalization service for their residents under the Provincial-Municipal Hospitalization Plan. For details see the section under Provincial-Municipal Hospitalization Plan of this report.

The district obtains its funds by requisition on the municipal units comprising the district. Where they operate a hospital they also requisition the contributing municipalities for capital cost, debentures and interest as well as any overall deficit that may occur. Maternity, pensioner and poliomyelitis services are provided by the government by direct payments to the district's hospital.

The total assessable acreage under the Municipal Hospital Plan on January 1st, 1956, was 31,905,783 with a total assessed value of \$475,879,579.00. The total requisitions for all municipal hospital districts in 1956 were 2,920,528.55 levied on an average mill rate tax of 6.088.

NURSE EDUCATION PROGRAM

1956 is the fourth year in which the nurse education program has been in operation for the purpose of encouraging young women enrolling in Schools of Nursing. The need for more graduate nurses is very great. The provincial government makes a grant of \$300.00 to a general hospital operating a School of Nursing, for each nurse graduated from its School of Nursing, and a grant of \$100.00 for each nurse graduated from a Provincial Mental Hospital's School of Nursing, and who re-

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TABLE XIX — MUNICIPAL HOSPITAL DATA—1956

		COST PATIEN	PER T DAY		. 80		
HOSPITAL	M.H.D. Number	Including Capital Interest and Depreciation	Excluding Capital Interest and Depreciation	Minimum Tax	Adult and Children Days, Plus 1/8 Newborn Days	Bed and Crib Capacity	Dec. 31, 1956 Debenture Principal Outstanding
Athabasca Bassano Beaverlodge Bentley Bervyn Brooks Cardston Cereal Claresholm Consort Coronation Crows Nest Pass Didsbury Drumheller Eckville Elk Point Elnora Empress Fairview Glendon Grande Prairie Hanna High River Innistail Islay Lacombe Little Bow Lioydminster Lethbridge Magrath Manning Mannville Mayerthorpe Medicine Hat Myrnam Olds Oyen Peace River Ponoka Provost Raymond Red Deer Rimbey Rocky Mountain House Smoky Lake Smoky Lake Stettler Taber Three Hills Tofield Turner Valley Two Hills Vermilion Viking Vulcan Walnwright	33 30 18 44 43 53 59 57 14 9 11 11 14 25 48 29 56 69 23 23 21 21 22 49 73 22 49 73 24 25 27 27 27 27 27 27 27 27 27 27	10.03 10.76 13.33 16.04 9.51 12.41 14.32 17.36 11.42 11.98 9.54 12.89 13.86 13.36 10.15 14.71 10.12 9.59 11.03 16.17 12.21 1.86 10.55 11.76 11.76 11.36 11.42 11.86 11.42 11.86 11.42 11.86 11.76 11.77 11.4	8.45 10.25 11.13 13.23 7.41 11.26 13.74 16.02 10.71 10.23 8.94 13.60 11.61 12.53 10.84 11.94 9.31 10.72 10.90 9.89 10.02 16.17 18.23 11.50 11.63 11.50 11.63 11.50 11.63 11.50	10.00 8.00 6.00 10.00 10.00 10.00 10.00 10.00 6.00 10.00	11,607 5,977 4,297 2,847 4,802 14,598 7,323 2,022 10,108 4,530 5,134 4,530 5,134 4,606 16,935 2,699 3,263 24,301 14,245 13,624 8,503 24,301 14,245 15,828 2,469 15,135 56,602 6,690 4,691 3,872 3,485 7,447 42,340 9,714 42,579 13,412 2,579 13,412 11,055 6,675 3,738 30,401 9,933 7,673 3,010 17,765 3,738 30,401 9,933 7,673 3,010 17,765 5,7753 6,659 7,518 10,279 8,722 8,519	42 26 23 16 44 24 9 42 22 18 42 22 25 51 16 23 32 28 79 42 29 42 29 42 29 42 29 42 29 42 29 42 29 42 42 29 42 42 43 44 42 42 43 44 44 42 42 43 44 44 44 44 44 44 44 44 44	143,462.22 151,243.17 25,600.00 28,000.00 126,500.00 59,131.02 40,750.00 9,000.00 44,083.11 178,548.85 42,589.05 113,500.00 37,800.00 46,000.00 45,000.00 46,000.00 47,000.00 48,000.00 118,098.55 65,859.04 2,787,162.98 102,638.12 58,107.36 34,436.21 41,200.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94 80,000.00 151,153.94

Not reporting depreciation.

ceived, prior to graduation, approximately two years' education in the general hospitals' School of Nursing. In return the hospital receiving the grant agrees that it will not charge the student any fee nor will the student be required to pay for books or uniforms during her three years' education. The Province also employed a Nurse Recruitment Officer to assist in recruiting student nurses for the Schools of Nursing and students for the Nursing Aide School, Calgary.

TABLE XX — 1956 REQUISITION

Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
Athabasca M.H.D. No. 13					
M.D. No. 103 L.I.D. No. 107 L.I.D. No. 122 Town of Athabasca	\$ 14,288.01 1,367.89 1,161.49 5,914.61	394,990 44,859 16,955	\$ 2,857,510.00 273,560.00 232,280.00 1,182,884.00	5.0 5.0 5.0 5.0	5,200 1,250
	\$ 22,732.00	456,804	\$ 4,546,234.00	5.0	6,450
Barrhead M.H.D. No. 67					
M.D. Barrhead No. 106 M.D. Ste. Anne No. 93 M.D. Westlock No. 92 L.I.D. No. 108 Town of Barrhead	\$ 17,017.00 495.00 330.00 1,357.00 5,800.00		\$ 3,557,500.00 103,470.00 69,380.00 284,025.00 1,211,824.00		1,900
	\$ 24,999.00	415,445	\$ 5,226,199.00	4.8	2,065
Bassano M.H.D. No. ii County Vulcan No. 2 County Newell No. 4 M.D. Wheatland No. 40 Town Bassano Village Rosemary Village Hussar	\$ 3,756.00 9,760.00 3,878.00 2,320.00 496.00 654.00	98,470 538,907 184,728	\$ 1,251,760.00 2,788,590.00 1,107,980.00 580,145.00 141,785.00 218,047.00	3.0 3.5 3.5 4.0 3.5 3.0	425 1,596 350 724 195 163
	\$ 20,864.00	822,105	\$ 6,088,307.00	3.4	3,453
Province of the No. No. 100					
Beaverlodge M.H.D. No. 32 County Grande Prairie No. 1 Town of Beaverlodge	\$ 16,302.00 7,475.00		\$ 1,417,560.00 650,000.00	11.5 11.5	3,000 850
	\$ 23,777.00	225,360	\$ 2,067,560.00	11.5	3,850
Banff National Park M.H.D. No Banff			\$10,805,229.00	1.3	2,770 53
	\$ 14,500.00		\$10,805,229.00	1.3	2,823
Bentley M.H.D. No. 43 M.D. Lacombe No. 64 County of Ponoka No. 3 M.D. of Red Deer No. 55 Village of Bentley	\$ 15,426.00 653.00 137.00 5,383.00		\$ 1,341,380.00 56,860.00 11,910.00 448,630.00	11.5 11.5 11.5 12.0	
	\$ 21,599.00	117,024	\$ 1,858,780.00	11.6	2,192
Bow Island M.H.D. No. 72 M.D. 40 Mile No. 2 Town of Bow Island Village of Foremost Village of Burdett	\$ 12,152.00 2,752.00 1,436.00 525.00		\$ 4,050,882.00 916,870.00 478,774.00 175,065.00	3.0 3.0 3.0 3.0	3,275 975 448 204
	\$ 16,865.00	300,000	\$ 5,621,591.00	3.0	4,902
Berwyn M.H.D. No. 50					
M.D. of Peace No. 135 L.I.D. No. 138 L.I.D. No. 139 Town of Grimshaw Village of Berwyn	7,728.00 834.00 555.00 3,449.00 1,560.00		\$ 1,717,340.00 185,393.00 123,275.00 766,394.00 283,711.00	4.5 4.5 4.5 4.5 5.5	1,286 405 755 353
	\$ 14,126.00	234,516	\$ 3,076,113.00	4.6	2,799
Boyle M.H.D. No. 61 Athabasca No. 103 Thorhlid County No. 7 L.I.D. No. 102 Village Boyle	\$ 5,376.00 51.00 498.00 1,635.00	141,454 3,040 19,194	\$ 1,095,950.00 10,400.00 101,595.00 333,320.00		2,492 184 450
	\$ 7,560.00	163,688	1,541,265.00	5.0	3,126

Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
Brooks M.H.D. No. 28 County of Newell County of Vulcan Special Areas No. 4 Improvement District No. 22 Town of Brooks Village of Duchess Village of Tilley	\$ 48,361.00 1,109.00 684.00 155.00 21,975.00 1,320.00 1,396.00	734,592 6,000 57,040 6,223	\$ 5,230,456.00 119,900.00 73,970.00 16,790.00 2,376,775.00 142,643.00 151,061.00	9.2 9.2 9.2 9.2 9.2 9.2 9.2	6,985 25 100 20 2,500 210 197
	\$ 75,000.00	803,855	\$ 8,111,595.00	9.2	10,037
Calgary Rural M.H.D. No. 63 M.D. Foothills No. 31 M.D. Wheatland No. 40 M.D. Wheatland No. 40 M.D. Rocky View No. 44 M.D. Kneehill No. 48 M.D. Mountain View No. 49 Improvement District No. 56 Improvement District No. 946 Improvement District No. 946 Town of Gleichen Town of Gleichen Town of Strathmore Village of Acme Village of Acme Village of Acme Village of Crossfield Village of Crossfield Village of Fricana Village of Fricana Village of Standard	\$ 7,430.00 24,074.00 46,648.00 5.064.00 5.002.00 4.810.00 100.00 416.00 2.400.00 1.270.00 1.270.00 1.282.00 516.00 1,846.00 1,570.00 638.00 938.00 853.00		\$ 2,874,397.00 9,311,323.00 18,047.103.00 1,958,955.00 1,934.780.00 1,558,490.00 447.210.00 657.235.00 357,765.00 277,251.00 360,388.00 131,980.00 444,263.00 428,100.00 177,600.00 270,420.00 236,610.00	2.5 5 5 5 5 5 5 2.5 5 5 3.6 6 3.5 5 6 5 3.9 4 3.6 5 3.4 3.6 5 3.4 3.6	2,250 4,680 10,378 1,275 1,250 2,804 120 338 435 704 347 287 350 176 700 466 180 240
	\$107,369.00	2,302,508	\$39,913,215.00	3.6	27,220
Cardston M.H.D. No. 5 M.D. Cardston No. 6 Town of Cardston	\$ 36,558.00 12,310.00	900,000	\$ 5,222,672.00 1,758,567.00	7.0 7.0	3,819 2,500
	\$ 48,868.00	900,000	6,981,239.00	7.0	6,319
Castor M.H.D. No. 41 M.D. Paintearth No. 53 County of Stettler Town of Castor Village of Halkirk	\$ 8,801.00 137.00 2,690.00 504.00 \$ 12,132.00	375,184	\$ 2,933,543.00 45,570.00 896,550.00 168,204.00 \$ 4,043,867.00	3.0 3.0 3.0 3.0	1,750 50 950 160
	\$ 12,132.00	373,184	4,043,867.00	3.0	2,910
Cereal M.H.D. No. 46 Special Area No. 3 Cereal, Village of Cereal	\$ 14,980.00 1,140.00	7,115,588	\$ 1,407,080.00 107,095.00	10.6 10.6	875 161
	\$ 16,120.00	715,648	\$ 1,514,175.00	10.6	1,036
Claresholm M.H.D. No. 24 M.D. Willow Creek No. 26 Town of Claresholm Village of Stavely	\$ 18,500.00 7,932.00 1,261.00	344,526	\$ 5,960,190.00 2,555,267.00 406,270.00	3.1 3.1 3.1	4,150 3,000 365
	\$ 27,693.00	344,526	\$ 8,921,727:00	3.1	7,515
Consort M.H.D. No. 22 S. A. No. 3 Village of Consort	17,520.00 2,730.00	776,029	2,401,720.00 374,030.00	7.8 7.8	2,000 450
	\$ 20,250.00	776,029	\$ 2,775,750.00	7.8	2,450
M.D. Paintearth No. 9 M.D. Provost S. A. No. 2 and No. 3 Town of Coronation	\$ 9,106.00 178.00 1,933.00 3,225.00	360,000 233,619	\$ 2,276,672.00 44,540.00 483,360.00 806,345.00	4.0 4.0 4.0 4.0	1,500 50 700 800
	\$ 14,442.00	593,619	\$ 3,610,917.00	4.0	3,050

			Assessed	Mill	Popu-
Contributing Units Crows Nest Pass M.H.D. No. 40	Requisition	Acreage	Value	Rate	lation
M.D. Pincher Creek No. 9 L.I.D. No. 10 Town of Blairmore Town of Coleman Village of Frank	\$ 1,344.00 33,545.00 14,873.00 8,775.00 1,459.00		\$ 156,720.00 3,911,033.00 1,734,045.00 1,023,130.00 170,152.00	8.5 8.5 8.5 8.5 8.5	
	\$ 59,996.00	49,479	\$ 6,995,080.00	8.5	9,060
Daysland M.H.D. No. 58 M.D. Camrose No. 63 M.D. Flagstaff No. 62 M.D. Beaver No. 73	\$ 4,934.00 7,582.00 885.00		\$ 1,233,640.00 1,895,730.00 221,350.00	4.0 4.0 4.0	117
Town of Daysland	2,024.00 \$ 15,425.00	250,243	\$ 3,856,728.00	4.0	3,401
Pt. M.D. Red DeerVillage of Delburne	\$ 5,716.00 1,784.00	124,840	\$ 1,290,086.00 402,610.00	4.4 4.4	1,400 400
	\$ 7,500.00	124,840	\$ 1,692,696.00	4.4	1,840
M.D. Mountain View No. 49 L.I.D. No. 50 Town of Didsbury Village of Cremona	\$ 30,324.00 184.00 8,472.00 472.00	466,352 7,209 902 100	\$ 5,054,360.00 30,790.00 1,303.650.00 78,955.00	6.0 6.0 6.5 6.0	3,800 90 1,215 200
	\$ 39,452.00	474,563	\$ 6,467,755.00	6.0	5,305
Drumheller M.H.D. No. 3 M.D. Wheatland No. 40 M.D. Starland No. 47 M.D. Kneehill No. 48 L.I.D. No. 42 S. A. No. 2 City of Drumheller Village of Munson Village of Munson Village of Rumsey Village of Pelia Village of Delia	\$ 11,746.00 31,783.00 17,194.00 25,500.00 20,449.00 446.00 1,134.00 543.00 1,613.00 1,508.00		\$ 2,084,753.00 5,641,291.00 3,051,825.00 2,831,205.00 192,440.00 2,384,445.00 103,248.00 262,530.00 125,580.00 373,458.00 349,110.00	5.8 5.6 5.7 9.9 8.7 4.3 3.6 4.2 4.6	1,230 2,860 3,000 6,600 120 2,574 90 220 121 265 387
	\$113,000.00		\$17,399,885.00	6.6	17,467
Eckville M.H.D. No. 30 M.D. Red Deer No. 55 M.D. Lacombe No. 64 L.I.D. No. 65 Village of Eckville	\$ 5,793.00 7,893.00 5,465.00 2,411.00		\$ 988,660.00 1,346,980.00 932,695.00 379,120.00	5.8 5.8 5.8 6.3	
	\$ 21,562.00	283,094	\$ 3,647,455.00	5.9	4,438
Elk Point M.H.D. No. 18 M.D. St. Paul No. 86 M.D. Bonnyville No. 87 M.D. Eagle No. 81 M.D. Vermilion River No. 71 L.I.D. No. 85 Village of Elk Point	\$ 17,288.00 1,588.00 2,234.00 6,788.00 255.00 4,555.00	244,031 30,695 24,401 79,140 7,720	\$ 1,728,785.00 158,855.00 223,425.00 678,790.00 25,470.00 455,521.00	10.0 10.0 10.0 10.0 10.0 10.0	4,200 400 328 954 590
	\$ 32,708.00	385,987	\$ 3,270,846.00	10.0	6,472
Elnora M.H.D. No. 44 M.D. Red Deer No. 55 M.D. Kneehill No. 48 Village of Elnora	\$ 10,352.00 5,279.00 2,202.00		\$ 1,089,774.00 555,725.00 209,855.00	9.5 9.5 10.5	1,301 308 204
	\$ 17,833.00	167,160	\$ 1,855,354.00	10.0	1,813
Empress M.H.D. No. 53 M.D. Acadia No. 34 S.A. No. 3 S.A. No. 2 L.I.D. No. 21 Village of Empress	\$ 7.220.00 6,860.00 864.00 2,474.00	132,315 8,493 83,643 20,512 320	\$ 735,690.00 33,660.00 842,475.00 96,890.00 304,545.00	8.7 8.7 8.7 8.7 8.7	475 50 488 125 475
	\$ 17,418.00	245,283	\$ 2,013,260.00	8.7	1,613

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Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
Fairview M.H.D. No.		ago			
	\$ 9,678.00 6,307.00		\$ 2,419,509.00	4.0 4.0	2,300 1,927
L.I.D. No. 139 Town of Fairview	6,022.00	220	1,576,875.00 1,094,912.00	5.5	1,200
Village of Hines Creek	1,438.00		359,530.00	4.0	114
	\$ 23,445.00	487,898	\$ 5,450,826.00	4.2	5,541
Glendon M.H.D. No. 57					
M.D. St. Paul No. 86	\$ 18.25 10,385.10	160	\$ 730.00 415,405.00	25.0 25.0	
M.D. Bonnyville No. 87 L.I.D. No. 101	8,099.75	84,655	323,990.00	25.0	
Village of Glendon	4,074.00		162,960.00	25.0	
	\$ 22,577.10	84,815	\$ 903,085.00	25.0	
Grande Prairie M.H.D. No. 14					
Grande Prairie County No. 1	\$ 22,519.00	620,000	\$ 6,434,085.00	3.5	7,000
Grande Prairie County No. 1 L.I.D. No. 111, 126, 132, 134	10,166.00 18,173.00	345,490 640	2,904,624.00 5 192 224 00	3.5 3.5	5,170
Town of Grande PrairieVillage of Sexsmith	1.487.00	70	5,192,224.00 429,974.00	3.5 3.5	400 482
Village of Hythe Village of Wembley	1,603.00 726.00	122 90	475,860.00 207,400.00	3.5	268
	\$ 54,674.00	966,412	\$15,644,167.00	3.5	13,320
Company No. 10					
M.D. Starland No. 47	\$ 7,840.56	77,486 38,754	\$ 1,120,080.00	7.0	500
M.D. Starland No. 47 M.D. Stettler No. 54	3,399.10 24,711.12	38,754 1,336,502	485,585.00 3,530,160.00	7.0 7.0	338 3,350
Special Areas Village of Craigmyle Town of Hanna	1,098.18	75	156,883.00	7.0	135 2,200
Town of Hanna	16,023.04	454	2,289,010.00	7.0	2,200
	\$ 53,072.00	1,453,271	\$ 7,581,718.00	7.0	6,523
High River M.H.D. No. 11					
County of Vulcan No. 2	\$ 7,641.00	160,000	\$ 2,183,240.00	3.5 3.5	5,000
M.D. Willow Creek No. 26	33,855.00 9,322.00	765,582	9,672,967.00 2,663,300.00	3.5	
L.I.D. No. 27 Town of Nanton	134.00 4,165.00	6,044	38,430.00 1,190,280.00 2,363,610.00	3.5 3.5	15 1,250
Town of High River	8,272.00		2,363,610.00	3.5 3.5	2,000 250
Village of Blackie Village of Cayley	803.00 565.00		229,600.00 161,588.00	5.0	156
	\$ 64,757.00	931,626	\$18,503,015.00	3.5	8,671
W 11 M W D W- 60					
Holden M.H.D. No. 68 M.D. Beaver	\$ 1,932.00	55,697	\$ 771,535.00	2,337	675
Village of Holden	1,668.00		666,200.00	2.688	610
	\$ 3,600.00	55,697	\$ 1,437,735.00	2.5	1,285
Hughenden M.H.D. No. 51			2 4 050 000 00	4 5	1 700
M.D. Provost No. 52 M.D. Flagstaff No. 62	\$ 7,442.44 27.63		\$ 1,653,880.00 6,140.00	4.5 4.5	1,760
Village of Hughenden	709.40		157,640.00 141,200.00	4.5 4.5	120 125
Village of Czar Village of Amisk	635.40 405.44		90,100.00	4.5	120
, 11.45	9,220.31	658,636	\$ 2,048,960.00	4.5	2,165
7 1 4 H W P 27 10					
Innisfail M.H.D. No. 16	\$ 23,152.00	421,550	\$ 5,538,200.00	4.0	6,150
Mountain View No. 49	1,001.00		250,360.00 277,590.00	4.0 4.0	
Waterloo No. 58	1,110.00 164.00	10,576	41.000.00	4.0	184
M.D. Red Deer No. 55 Mountain View No. 49 Knee Hill No. 48 Waterloo No. 58 Raven No. 65 Town of Innisfail	449.00 6,310.00	394	112,430.00 1,577,590.00	4.0	700 1,606
Village of Bowden	1,225.00	44	306,390.00	4.0	307
	\$ 33,411.00	432,564	\$ 8,103,560.00	4.0	8,947
Irma M.H.D. No. 55					
M.D. Wainwright No. 61 M.D. Flagstaff No. 62	\$ 3,084.00 194.00		\$ 1,027,895.00 64,780.00	3.0 3.0	
Village of Irma	1,092.00		364,323.00	3.0	
	\$ 4,370.00	105,096	\$ 1,456,998.00	3.0	1,115

Contributing Units Islay M.H.D. No. 4	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
Vermilion River No. 71	\$ 16,000.00	283.785	\$ 3,316,680.00	4.8	3,515
	\$ 16,000.00	283,785	\$ 3,316,680.00	4.8	3,515
Lacombe M.H.D. No. 54					
County Ponoka No. 3 M.D. Lacombe No. 64 M.D. Camrose No. 63 Town of Lacombe Village of Clive Village of Blackfalds Village of Alix	30,585.00	16,205 426,240 4,480 640	\$ 135,560.00 5,997,230.00 23,920.00 3,386,900.00 215,400.00 150,265.00 477,440.00	5.1 5.1 5.7 5.1 5.1 5.1 5.1	130 7,350 50 3,000 350 150 600
	\$ 55,000.00	447,565	\$10,386,715.00	5.1	11,630
Lethbridge M.H.D. No. 65					
M.D. Willow Creek M.D. Lethbridge M.D. Cardston M.D. Forty Mile County of Warner M.D. Taber County of Vulcan City of Lethbridge Town of Coaldale Village of Nobleford Village of Barons Village of Warner	646.23 13,005.09 67,031.29 12,837.96 2,461.64 303,263.04	2,000 573,000 5,064 217,360 654,000 267,102 3,300	\$ 41,210.00 10,349,965.00 61,285.00 1,233,340.00 6,356,925.00 1,217,490.00 233,450.00 28,760.005.00 1,290,350.00 430,495.00 449,370.00	10.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3	15 11,000 50 800 3,470 1,100 20 28,000 900 280 290 340
	\$535,423.00	1,721,826	\$50,776,936.00	10.3	46,265
Little Bow M.H.D. No. 25 M.D. Lethbridge No. 25 County of Vulcan No. 2 Village of Champion Village of Carmangay Lloydminster M.H.D. No. 8 M.D. Vermilion River No. 71 Town of Lloydminster, Alberta Village of Marwayne Macleod M.H.D. No. 48 Willow Creek No. 26 M.D. Pincher Creek No. 9 M.D. Lethbridge No. 25 Fort Macleod	16,228.00 2,891.00 2,097.00 \$ 23,440.00	19,045 177,150 176 196,371 537,397 400 185 537,982	\$ 317,830.00 2,318,400.00 413,010.00 299,600.00 \$ 3,348,840.00 \$ 7,934,360.00 2,168,140.00 317,500.00 \$10,420,000.00 \$ 2,923,470.00 107,780.00 461,275.00 2,136,310.00	7.0 7.0 7.0 7.0 7.0 7.0 7.0 4.03 6.0 6.3 4.5	161 1,100 411 285 1,957 4,755 2,500 355 7,610
	\$ 32,796.00	443.003	\$ 5,628,835.00	5.8	4,806
			- 5,020,000.00		
Magrath M.H.D. No. 29					
M.D. Cardston No. 6 County of Warner No. 5 Town Magrath	\$ 14,997.44 1,095.25 4,989.81	233,776 29,439 1,300	\$ 2,918,210.00 213,115.00 \$ 970,920.00	5.1 5.1	2,800 1,400
	\$ 21,082.50	264,515	\$ 4,102,245.00	5.1	4,200
Manning M.H.D. No. 70					
Pt. L.I.D. No. 138	\$ 11,597.00 1,350.00 5,192.00 583.00	261,149	\$ 1,159,765.00 519,236.00	10.0 10.0 10.0 10.0	
	\$ 18,722.00	261,149	\$ 1,679,001.00	10.0	2,843

Contributing Units Mannville M.H.D. No. 1	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
M.D. Minhum No. 72	\$ 13,151.94	273,289	\$ 2,191,990.00	6.0	2,027
Free Hospitalization M.D. Wainwright	1,285.00 2,296.56		382,760.00	6.0	
Free Hospitalization M.D. Eagle No. S1 Town of Mannville Village of Minburn	147.00 64.86 3,715.13 1,169.22	1,235 240	10,810.00 619,189.00 194,870.00	6.0 6.0 6.0	20 526 202
	\$ 21,830.71	274,764	\$ 3,399,619.00	6.0	2,775
Mayerthorpe M.H.D. No. 38 M.D. Lac Ste. Anne No. 93 M.D. Barrhead No. 106 L.I.D. No. 78 L.I.D. No. 109 Village of Mayerthorpe	\$ 30,742.00 154.00 17.00 5,091.00 7,596.00	242,400 315 53,523 115	\$ 1,808,349.00 9,070.00 980.00 299,515.00 446,835.00	17.0 17.0 17.0 17.0 17.0	3,200 18 3 460 725
	\$ 43,600.00	296,353	\$ 2,564,749.00	17.0	4,406
Myrnam M.H.D. No. 23 M.D. Eagle No. 81 M.D. St. Paul No. 86 Village of Myrnam	\$ 28,122.00 579.00 7,105.00	169,492 8,537	\$ 1,607,005.00 33,100.00 406,000.00	17.5 17.5 17.5	1,910 100 425
	\$ 35,806.00	175,029	\$ 2,046,105.00	17.5	2,435
Olds M.H.D. No. 26 M.D. Mountain View No. 49 M.D. Kneehill No. 48 L.I.D. No. 50 Town of Olds Town of Sundre	\$ 26,829.00 4,248.00 24.00 12,793.00 2,556.00	350,879 37,440 1,281 607 261	\$ 4,471,545.00 708,100.00 4,110.00 2,132,380.00 426,110.00	6.0 6.0 6 _* 0 6.0 6.0	5,800 1,000 1,913 675
	\$ 46,450.00	390,468	\$ 7,742,245.00	6.0	9,388
Oyen M.H.D. No. 35 M.D. Acadia Valley Special Area Village of Oyen	\$ 2,284.00 16,210.00 4,236.00	55,849 688,657	\$ 237,620.00 1,686,448.00 440,663.00	9.6 9.6 9.6	160 700
	\$ 22,730.00	744,506	\$ 2,364,731.00	9.6	860
Peace River M.H.D. No. 21 M.D. Peace River No. 135 M.D. Smoky River No. 130 L.I.D. No. 131 L.I.D. 138 Town of Peace River	\$ 3,603.00 323.00 10,739.00 2,290.00 17,107.00	42,800 6,209 200,696 227,605	\$ 450,410.00 40,430.00 1,342,331.00 286,281.00 2,138,320.00	8.0 8.0 8.0 8.0 8.0	1,580 2,300 1,617 444 2,300
	\$ 34,062.00	477,310	\$ 4,257,772.00	8.0	8,241
Ponoka M.H.D. No. 37 County of Ponoka No. 3 M.D. Camrose No. 63 Town of Ponoka	\$ 33,051.00 2,318.00 21,631.00	335,759 30,720 1,399	\$ 5,255,355.00 368,600.00 3,439,310.00	6.3 6.3 6.3	5,275 325 3,500
	\$ 57,000.00	367,878	\$ 9,063,265.00	6.3	9,100
Provost M.H.D. No. 12 M.D. Provost No. 52 M.D. Wainwright No. 61 Special Area No. 3 Town of Provost	863.00	442,555 41,168 53,327 399 537,449	\$ 3,577,958.00 270,670.00 95,905.00 933,230.00 \$ 4,877,763.00	9.0 9.0 9.0 9.0 9.0	1,950 284 600 1,098 3,932
Raymond M.H.D. No. 31 M.D. Warner County M.D. Cardston No. 6 M.D. Lethbridge Town of Raymond Village of Stirling	7,850.00	161,623 27,623 1,864	\$ 2,761,460.00 422,445.00 26,940.00 1,381,500.00 213,160.00 \$ 4,805,505.00	4.675 4.675 4.675 5.675 5.35	2,100 2,450 700 5,250

64 DIVISION OF HOSPITAL AND MEDICAL SERVICES

Contributing Units	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
Red Deer M.H.D. No. 15 M.D. No. 55 M.D. No. 64 City of Red Deer Town of Sylvan Lake Village of Penhold	. 75,099.00	272,549 47,111 2,816 531 640	\$ 4,589,261.00 506,470.00 10,675,065.00 1,327,815.00 248,050.00	8.0 8.0 8.0 8.0	5,252 1,100 11,688 1,255 260
	\$122,113.00	323,647	\$16,346,661.00	8.0	19,555
Rimbey M.H.D. No. 52 County of Ponoka No. 3 M.D. Lacombe No. 64 L.I.D. No. 65 Town of Rimbey	. 732.00 513.00	8,632	\$ 3,044,495.00 81,400.00 57,190.00 787,580.00	9.0 9.0 9.0 10.0	
	\$ 36,520.00	164,036	\$ 3,970,665.00	9.1	3,875
Rocky Mountain House M.H.D. L.I.D. No. 65 Town Rocky Mountain House Village of Caroline	\$ 11,308.00 6,370.00	289,043 165 65	\$ 1,884,745.00 980,130.00 122,640.00	6.0 6.5 6.0	320
	\$ 18,413.00	289,273	\$ 2,987,515.00	6.0	5,770
Smoky Lake M.H.D. No. 73 M.D. Smoky Lake No. 89 Village of Smoky Lake Village of Warspite	\$ 5,793.50 1,163.00 415.00	271,770	\$ 2,317,350.00 465,190.00 166,010.00	2.5 2.5 2.5	3,840 556 168
	\$ 7,371.50	271,770	\$ 2,948,550.00	2.5	4,564
Spirit River M.H.D. No. 458 M.D. No. 133 L.I.D. No. 132 L.I.D. No. 134 Town of Spirit River Village of Rycroft	5,964.00 7,646.00 4,034.00	141,627 149,599 252,198	\$ 1,573,945.00 917,648.00 1,176,355.00 620,720.00 359,595.00	6.5 6.5 6.5 6.5 6.5	2,025 1,075 2,125 920 520
	\$ 30,211.00	543,424	\$ 4,648,263.00	6.5	6,665
Stettler M.H.D. No. 20 County of Stettler M.D. Paintearth No. 53 M.D. Starland No. 47 M.D. Camrose No. 63 Town of Stettler Village of Big Valley Village of Donalda Village of Gadsby Village of Botha	1,463.00 783.00 1,590.00 22,236.00 1,935.00		\$ 7,857,360.00 243,880.00 130,570.00 265,050.00 3,705,944.00 322,480.00 229,666.00 103,000.00 90,766.00	6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0	68 3,318 524 250 108 100
	\$ 77,692.00	871,614	\$12,948,716.00	6.0	10,869
St. Paul M.H.D. No. 36 M.D. St. Paul M.D. Eagle M.D. Bonnyville Dept. of Municipal Affairs	\$ 11,512.58 34.56 1,338.24	390,980 956 23,336	\$ 2,878,145.00 8,640.00 334,560.00	4.0 4.0 4.0	7,500 10 1,800
(Local L.I.D. No. 101)	81.16 7,192.53	2,029	20,290.00 1,798,133.00	4.0 4.0	160 2 ,300
	\$ 20,159.07	417,325	\$ 5,039,768.00	4.0	11,770
Taber M.H.D. No. 27 M.D. Taber No. 14 M.D. 40-Mile No. 2 County of Warner No. 5 M.D. Lethbridge No. 25 Town of Taber Village of Grassy Lake Village of Vauxhall	\$ 38,260.00 962.00 658.00 18.00 38,619.00 2,084.00 4,207.00		\$ 4,251,113.00 106,930.00 73,190.00 2,070.00 4,291,020.00 231,595.00 467,500.00	9.0 9.0 9.0 9.0 9.0 9.0 9.0	3,900 16 12 4,000 175 450
	\$ 84,808.00	431,059	\$ 9,423,418.00	9.0	8,553
Tofield M.H.D. No. 47 M.D. Beaver No. 73 M.D. Stratheona No. 83 M.D. Camrose No. 68 Town of Tofield Village of Ryley	\$ 17,388.70 1,403.70 1,283.70 4,183.85 2,741.60	187,719 26,541	\$ 2,675,180.00 215,955.00 197,490.00 760,700.00 498,467.00	6.5 6.5 6.5 5.5 5.5	1,950 450 250 780 480
	\$ 27,001.55	214,260	\$ 4,347,792.00	5.5	3,910

	Requisition	Acreage	Assessed Value	Mill Rate	Popu- lation
Three Hills M.H.D. No. 45 M.D. Kneehill Mountainview Town of Three Hills	\$ 27,224.00 385.00 9,359.00	239,360 211	\$ 3,521,905.00 49,850.00 1,210,690.00	7.73 7.73 7.73	2,401 1,200
Town of Three Hills	\$ 36,968.00	239,571	\$ 4,782,445.00	7.7	3,601
Trochu M.H.D. No. 56 M.D. Kneehill No. 48 Village of Trochu	\$ 10,542.00 3,458.00 \$ 14,000.00	52 158,816	\$ 2,293,180.00 755,801.00 \$ 3,048,981.00	4.6 4.6 4.6	1,600 650 2,250
Turner Valley M.H.D. No. 66 M.D. Foothills No. 31 Town of Black Diamond Village of Turner Valley	\$ 21,599.00 3,143.00 1,658.00	4,160	\$ 4,321,276.00 628,915.00 331,757.00	5.0 5.0 5.0	1,800 1,162 862
	\$ 26,400.00	663,600	\$ 5,281,948.00	5.0	3,824
Two Hills M.H.D. No. 42 M.D. Eagle No. 81 M.D. Minburn No. 72 M.D. St. Paul No. 86 Town of Two Hills	\$ 24,046.00 697.00 144.00 7,135.00 \$ 32,022.00	221,943 1,794 126 235,353	\$ 2,404,670.00 69,750.00 14,420.00 713,534.00 \$ 3,202,374.00	10.0 10.0 10.0 10.0 10.0	3,490 128 40 782
Vegreville M.H.D. No. 34 Beaver No. 73 (M.D.) M.D. Eagle No. 81 M.D. Minburn No. 72 M.D. Lamont No. 82 Town of Vegreville Village of Lavoy	\$ 4,620.00 1,803.00 13,103.00 268.00 10,460.00 477.00 \$ 30,731.00	97,839 33,536 206,624 5,121 1,280 160 344,560	\$ 1,319,745.00 515,230.00 3,745,865.00 76,715.00 2,988,499.00 136,385.00 \$ 8,782,439.00	3.5 3.5 3.5 3.5 3.5 3.5 3.5	1,100 363 2,794 90 2,615 125
Vermilion M.H.D. No. 2 M.D. Eagle M.D. Minburn M.D. Vermilion River M.D. Wainwright Town of Vermilion Village of Derwent	\$ 5,112.00 7,504.00 22,539.00 21.00 20,477.00 2,067.00	64,226 121,655 232,429 63,724 1,222 54½	\$ 652,915,00 958,410,00 2,878,600,00 2,800,00 2,458,310,00 264,000,00	7.83 7.83 7.83 7.83 8.33 7.83	740 800 3,000 2,408 283
Viking M.H.D. No. 10 M.D. Beaver M.D. Minburn M.D. Flagstaff M.D. Wainwright	\$ 35,636.00 3,194.00 1,464.00 4,461.00 8,245.00	388,724 15,360 49,640	\$ 7,215,035.00 \$ 3,516,915.00 303,430.00 115,090.00 413,852.00 801,135.00	7.83 10.3 10.3 10.3 10.3 10.3	2,900 300 106 350 800
Town of Viking	\$ 53,000.00	453,724	\$ 5,150,422.00	10.3	4,456
Vulcan M.H.D. No. 19 County of Vulcan No. 2 L.I.D. Willow Creek No. 26 Town of Vulcan	\$ 25,987.00 46.00 3,967.00		\$ 8,823,670.00 15,620.00 1,346,990.00	2,945 2.945 2.945	
	\$ 30,000.00	605,050	\$10,186,280.00	2.9	5,095
Wainwright M.H.D. No. 17 M.D. Wainwright No. 61 M.D. Minburn No. 72 M.D. Vermilion No. 71 M.D. Provost No. 52 Town of Wainwright	\$ 31,380.44 96.13 82.09 352.17 13,116.98	479,427 2,224 640	\$ 4,827,763.00 14,790.00 12,630.00 54,180.00 2,384,907.00	6.5 6.5 6.5 6.5 5.5	6,500 40 11 2,500
	\$ 45,027.81	752,291	\$ 7,294,270.00	6.5	9,051
Willingdon M.H.D. No. 64 M.D. Lamont M.D. Eagle Village of Willingdon Village of Hairy Hill	\$ 880.00 5,728.00 1,355.00 649.00	15,660 113,402	\$ 251,525.00 1,635,850.00 387,190.00 185,580.00	3.5 3.5 3.5 3.5	315 1,780 520 205
	\$ 8,612.00	129,062	\$ 2,460,145.00	3.5	2,820

Under this program a total of \$146,100.00 was expended by the provincial government in 1956 on behalf of 483 graduates at \$300.00 each and 12 graduates at \$100.00 each. There was a total of 495 nurses from 11 Schools of Nursing operated by the general hospitals of the province.

For comparative purposes, following is the data for the three previous years:

1953 — 394 graduated; 1954 — 397 graduated; 1955 — 368 graduated.

The School for Nursing Aides

This School, which is located in Calgary and operated by the Provincial Government, continued in 1956 with its program of providing training for nursing aides who, when certified after completing their course, are employed in hospitals throughout the Province. Opened originally in 1946 as a means of alleviating the acute shortage of nursing personnel existing at that time, it is aiding materially to meet an ever growing need for nursing personnel in hospitals today.

The total number of students enrolled at the school during 1956 was 273. The number completing the course during the year was 254. Following is a list of nursing aides certified since the inception of the school:

 $\substack{1946-10;\ 1947-41;\ 1948-160;\ 1949-117;\ 1950-159;\\1951-247;\ 1952-216;\ 1953-208;\ 1954-256;\ 1955-270;\ 1956-254.}$

Total Certified—1,938.

Of the total certified 1,165 were employed in Alberta hospitals and 187 in out-of-Province hospitals as of December 31, 1956.

The Laboratory and X-ray School

This school is operated in Edmonton by the Department of Public Health and was established in 1954 to help meet an acute need for X-ray and laboratory technicians in small general hospitals. The course, which requires six months to complete, provides three months training in laboratory and three months training in X-ray procedures.

During 1956 twelve students were certified for laboratory and X-ray duties and sixteen new students enrolled. A total of twenty-two hospitals were utilizing the services provided by these certified students. There are numerous requests on file from other hospitals for these students, and the present school with an approximate capacity of 15 students is not capable at the present time of filling the demand.

The first course commenced January 1st, 1955, certified 14 technicians, and the twelve were certified in April, 1956.









PART III

ANNUAL REPORT

OF THE

Bureau of Vital Statistics

OF THE

DEPARTMENT OF PUBLIC HEALTH
PROVINCE OF ALBERTA

1956



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ANNUAL REPORT—1956 VITAL STATISTICS DIVISION

JOHN COLVILLE, Deputy Registrar General

This is the fifty-first Annual Report of Vital Statistics for the Province of Alberta and is for the year 1956. The report shows slight decreases in the birth, marriage, death and infant mortality rates from the previous year. The maternal mortality rate remains unchanged.

The 1956 birth rate, although 1.1% less than the 1955 rate, is the second highest for the Provinces of Canada, and is only exceeded by Newfoundland.

The marriage rate for 1956 again is the highest of the Canadian Provinces, although there has been a yearly decline for the past ten years.

Deaths from epidemic and contagious diseases have decreased for the second successive year, the most marked decreases in this group occurred in tuberculosis and measles. The number of deaths due to heart disease decreased, whereas cancer deaths increased slightly. There was a marked increase in the number of deaths due to motor vehicle accidents.

During the year, the births of 97 children were legitimated by the subsequent marriage of the parents, 1,013 delayed registrations of birth were completed, 414 legal change of names and 622 change of christian names were filed, and 870 legal adoptions registered.

POPULATION

The last census of the Province of Alberta was enumerated on June 1, 1956, and the population count was 1,123,116. All rates in this report are, therefore, based on the round figure of 1,123,000.

BIRTHS

There were 34,951 live births registered during the year, 1,565 of which were Indians, the rate being 31.1 per 1,000 population, a decrease of 1.1 per 1,000 population under last year's rate. Of the total births 17,985 were males and 16,966 females, the ratio being 1,060 males to 1,000 females. Multiple births comprised 393 sets of twins and 3 sets of triplets. There were 1,674 illegitimate births registered during the year, 38 less than the previous year and constituting a rate of 4.7 per 100 live births. Of the total births registered 29,255 occurred in urban places of 1,000 population and over, and 5,696 in the rural districts. Ninetysix per cent of all births occurred in hospitals and this high percentage is attributed to the Province's free maternity hospitalization plan.

The number of births registered in the cities were as follows: Edmonton, 11,123; Calgary, 7,113; Lethbridge, 1,372; Medicine

Hat, 891; Red Deer, 724; Camrose, 447; Wetaskiwin, 338; Drumheller, 326.

For the purpose of comparison the following are recent birth rates for Canada and certain other countries:

Canada	28.0	United States	
Newfoundland	35.0	Australia	
Prince Edward Island		New Zealand	
Nova Scotia		Denmark	
New Brunswick		Finland	20.8
Quebec		France	
Ontario	26.6	Italy	
Manitoba		Austria	
Saskatchewan	27.3	Norway	18.7
Alberta		Netherlands	
British Columbia		Portugal	22.3
England and Wales		Spain	
Scotland	18.5	Sweden	
Northern Ireland		Switzerland	
Ireland (Republic)		Western Germany	16.2

MARRIAGES

Marriages registered in 1956 numbered 9,965, an increase of 121 over the previous year. The number of marriages registered is the second highest in the history of the Province and was only exceeded in the year 1953. The rate per 1,000 population is 8.9, a decrease of .3 from last year's rate of 9.2.

Of the 9,965 marriages, 363 were brides of 16 years and under; 2,843 were between the ages of 17 and 19; 4,063 were between the ages of 20 and 24; and 11 were 75 years and over. There were 159 bridegrooms of 18 years and under; 4,874 were between the ages of 19 and 24, and 28 were 75 years and over. Of the brides, 8,950 were spinsters, 484 widows, 531 divorced, and of the bridegrooms 9,152 were bachelors, 346 were widowers and 467 divorced. The number of marriages registered in the cities were as follows: Edmonton 2,945; Calgary, 2,090; Lethbridge, 386; Medicine Hat, 281; Red Deer, 209; Camrose, 98; Wetaskiwin, 93; Drumheller, 80.

The following Table shows the marriage rates for Canada and certain other countries:

MARRIAGE RATES

Canada	8.3	United States	0.4
Newfoundland		Australia	7.6
Prince Edward Island		New Zealand	
Nova Scotia		Denmark	7.9
New Brunswick		Finland	7.7
Quebec		France	6.7
Ontario	8.6	Italy	7.5
Manitoba	7.9	Austria	8.2
Saskatchewan	7.3	Norway	7.2
Alberta		Netherlands	8.5
British Columbia		Portugal	
England and Wales		Spain	
Scotland		Sweden	6.9
Northern Ireland		Switzerland	8.0
Ireland (Republic)	5.7	Western Germany	8.9

DIVORCES

There were 688 final Decrees of Divorce granted during the year, 278 were granted to husbands and 410 to wives. In addition 3 Decrees of Nullity were granted. The number of Divorce and Nullity Decrees exceeded the previous 5 year average by 77.

DEATHS

Deaths of 7,786 persons were registered during the year of which 284 were Indians. Male deaths numbered 4,916 and females 2,870. There were 170 fewer deaths than in the previous year and the death rate dropped from 7.5 to 6.9. The death rate of 6.9 is the second lowest in the history of the Province, it was equalled in 1934 and surpassed in 1907. Alberta's death rate was the lowest in Canada.

The number of deaths registered in the cities were as follows: Edmonton, 1,463; Calgary, 1,362; Lethbridge, 210; Medicine Hat, 202; Red Deer, 84; Camrose, 88; Wetaskiwin, 56; Drumheller, 28.

The chief cause of death again was heart disease, although the rate dropped to 204 for 100,000 population, from last year's rate of 227. There were 2,298 deaths assigned to heart disease as compared to 2,420 for the previous year and a large per cent of those occurred in the old age groups. There was a slight increase in the number of cancer deaths, but due to increased population the rate dropped from 116 per 100,000 population to 110. Deaths from pulmonary tuberculosis numbered 36 and this figure included 11 Indians. The rate of 3 deaths per 100,000 population is half that of last year's rate. Deaths due to Poliomyelitis increased by one over the previous year. Pneumonia, all forms, decreased by 1, and Influenza decreased by 9.

Violent and accidental deaths numbered 782, an increase of 14 over the previous year and included 283 deaths from motor vehicle accidents, 25 other transport accidents, 38 accidental poisonings, 90 accidental falls, 40 machinery accidents, 34 accidents caused by fire and explosion of combustible material, 3 accidents caused by hot substances, corrosive liquid steam and radiation, 13 accidents caused by firearms; 48 accidental drownings, 73 all other accidents, 115 suicides and 20 homicides.

Table 18 shows principal causes of death by number and rate for the last decennial period.

The death rates for Canada and certain other countries are as follows:

Canada	8.2	United States	9.4
Newfoundland		Australia	9.1
Prince Edward Island		New Zealand	9.0
Nova Scotia		Denmark	8.8
New Brunswick		Finland	9.0
Quebec		France	12.4
Ontario	8.7	Italy	10.3
Manitoba		Austria	
Saskatchewan		Norway	8.5
Alberta		Netherlands	
British Columbia		Portugal	
England and Wales		Spain	
Scotland		Sweden	
Northern Ireland		Switzerland	
Ireland (Republic)		Western Germany	
II ciana (Itcpubile)	L.L. (TT COUCLES CONTRACTOR	

MATERNAL DEATHS

Puerperal deaths numbered 14 and the rate was 0.4 the same as the previous year.

MATERNAL DEATH RATES PER 1,000 LIVE BIRTHS

Canada	0.6	Ontario	0.5
Newfoundland	1.6	Manitoba	0.3
Prince Edward Island	0.4	Saskatchewan	0.3
Nova Scotia	0.3	Alberta	0.4
New Brunswick	0.5	British Columbia	0.4
Quebec	0.9		

INFANT DEATHS

Deaths of children under one year of age numbered 860, a decrease of 28 under the previous year. The infant death rate of 25 per 1,000 live births is the lowest in Canada and is shared with the Province of Ontario. The infant death rate has been decreasing steadily for years and the current rate is the lowest in the history of the Province. Of the total deaths, 508 were males and 352 females.

INFANT MORTALITY RATES PER 1,000 LIVE BIRTHS

Canada Newfoundland Prince Edward Island Nova Scotia New Brunswick Quebec Ontario Manitoba Saskatchewan Alberta British Columbia England and Wales Scotland	40 41 25 31 28 25 26 26 24 29	United States Australia New Zealand Denmark Finland France Italy Austria Norway Netherlands Portugal Spain Sweden	26 22(1955) 25(1955) 25(1955) 25 32 48 44 21(1954) 19 89 49 17
	29 29		

Stillbirths registered numbered 409, constituting a rate of 11.7 per 1,000 live births. There were 22 less stillbirths than in the previous year and of the total 211 were males and 198 females.

DIVISIONS OF ALBERTA FOR CENSUS AND VITAL STATISTICS PURPOSES

As the Province of Alberta is not divided into Counties, and the political divisions are not permanently fixed, it has been found advisable to use smaller areas, the Dominion Census Divisions.

Prior to 1956 the Province was divided into 17 census divisions. However in 1956 the census division boundaries were completely revised and there are now 15 census divisions. These divisions are further sub-divided into municipal areas. The municipal areas which were each originally within the boundaries of a single census division, have been reorganized by the Provincial authorities into larger units, and now, in many cases, part of the new municipality or improvement district is in one census division and part in another.

The following table shows the census divisions divided into municipalities, improvement districts, cities, towns and villages with the 1956 and 1951 division population figures.

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1951 AND 1956

Division and	FD - 4	- 1	Division and	m-4-	. 7
Subdivision	Tot		Subdivision	Tota	
j	1956	1951		1956	1951
1		000 501	Division No. 3—Continued:		
ALBERTA	1,123,116	939,501	Towns:	0.007	0 407
			Cardston	2,607	2,487
Division No. 1	34,496	28,317	Claresholm	2,431	1,608
2. Forty Mile	4,224	3,924	Fort Macleod	2,103	1,860
11. I.D.—D.A	4,076	4,025	Granum	322	327
22. I.D.—D.A	592	563	Magrath	1,382	1,320
Army Experimental Range	863	533	Nanton	1,047	934
Cities:			Pincher Creek	1,729	1,456
Medicine Hat	20,826	16,364	Stavely	338	327
Towns:			Villages:		
Bow Island	1,001	653	Cowley	92	119
Irvine	232	224			
Redcliff	2,001	1,538	Division No. 4	14,294	13,182
Villages:			34. Acadia	914	703
Burdett	225	118	Special Area No. 2	3,687	3,590
Foremost	456		Special Area No. 3	5,036	4.811
roremost	100	1	Villages:		
Division No. 2	74.991	67.694	Towns:		
	6.730		Hanna	2,327	2.027
14. Taber	11,624		Cereal	154	139
25. Lethbridge	5,943	7.023	Chinook	154	116
Newell County No. 4		5,322	Consort	434	396
Warner County No. 5	5,157	3,322		480	41
Cities:	00 400	00 045	Empress	562	433
Lethbridge	29,462	22,947	Oyen		206
Towns:			Veteran	241	
Bassano	753		Youngstown	305	35:
Brooks	2,320				
Coaldale	2,327		Division No. 5	38,120	
Milk River	642		40. Wheatland	5,582	5,779
Raymond	2,399		42. I.D.—D.A	5,502	6,923
Taber	3,688	3,042	47. Starland	2,831	2,893
Villages:			48. Kneehill	7,055	7,17
Barons	352	369	Vulcan County No. 2	5,087	5,09
Duchess	177	258	Indian Reserves	1,507	1,300
Grassy Lake	282	167	Cities:		
Nobleford	263	255	Drumheller	2,632	2,60
Picture Butte	881	865	Towns:		
Rosemary	158		Gleichen	581	43
Stirling	430		Strathmore	727	70
Tilley	240		Three Hills	1.095	1.020
Vauxhall	713		Vulcan	1,204	
Warner	450		Villages:		
vv ai ilei	400	1 122	Acme	292	27
Division No. 3	30,426	27.667	Arrowwood	240	
			Carbon	354	
6. Cardston	5,398			299	
9. Pincher Creek	3,109		Carmangay	402	37
26. Willow Creek	6,344			197	20:
Indian Reserves	3,524	2,555	Cluny	191	20.

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1951 AND 1956 (Con'td)

Division and Subdivision	Tot		Division and Subdivision	Total		
	1956	1951		1956	1951	
Division No. 5-Continued:		{	Division No. 8—Continued:			
Villages—Continued:	138	136	Ponoka County No. 3	8,611 1,230	9,13	
Craigmyle Delia	282		Cities:	1,200	1,12	
Hussar Lomond	168	120	Red Deer	12,338	7,57	
Milo	189 167	153 141	Towns:	1 883	1,41	
Morrin Munson Rockyford Rumsey Standard	267	226	Innisfail Lacombe	1,883 2,747	2,27	
Munson	82	78	Ponoka	2,747 3,387	2,27 2,57	
Rumsey	226 104	246 110	Rimbey	980	75 1,14	
Standard	230	237	Rocky Mountain House Sylvan Lake	1,114	98	
Trochu	680	630	Villages:			
Division No. 6	237,886	1177 441	Alix Bentley	517 536	46 43	
31. Foothills	7,902 12,788	8,100 14,770 1,390	Blackfalds	340	15	
44. Rocky View	12,788 4,650	14,770	Bowden	296	27	
Division No. 6 31. Foothills 44. Rocky View 46. I.D.—D.A. 49. Mountain View	9,273	9,497	Caroline	296 249	24	
THURST TOCACTACA	478	385	Delburne Eckville Elnora	429	39	
Cities:	101 700	100 000	Eckville	456	37	
Calgary Towns:	181,780	129,060	Elnora	177 32	21	
Black Diamond	991	1,154	Gull Lake Mirror Penhold	591	3 63	
Bowness Didsbury	6,217 1,227	2,922	Penhold	213	17	
Forest Lawn	3,150	1,180 1,079		17,239	10.40	
Forest Lawn High River Okotoks	2,102	1.888	8. I.D.—D.A.	110	19,49 16	
Okotoks	764	767	8. I.D.—D.A 10. I.D.—D.A	3,269	4.70	
Olds	1,980 923		27. I.D.—D.A	100	12	
Villages:	540	001	33. I.D.—D.A	47 75	3	
Airdrie	327	267	58. T.D.—D.A.	429	44	
Beiseker Blackie Carstairs Cayley	321 198	325	69. I.D.—D.A	152	1,22	
Carstairs	198 449		Ranff National Park	2,456 3,069	2,63 2,85	
Cayley	146	139	Banff National Park Banff (not incorp.) Jasper National Park Jasper (not incorp.) Waterton Lakes	2.518	2,35	
Cochrane	707	530	Jasper National Park	2,518 2,322	1,89	
Cremona	192 459	443	Jasper (not incorp.)	2,105	1,72	
Cochrane Cremona Crossfield Irricana	158		National Park	277	23	
Turner Valley	704	719	Indian Reserves	1,173	97	
Division No. 7	40.214	40,217	Towns: Blairmore	1,973	1,93	
52. Provost	3,621	3,751	Coleman	1,566	1,96	
53. Paintearth	3,515	3.462	Villages:	[
62. Flagstaff	4,481 6,806	4,690 7,194	Frank	221	23	
52. Provost 53. Paintearth 61. Wainwright 62. Flagstaff Stettler County No. 6 Buffalo National Park	6,061	6,059	Division No. 10	71,500	70,67	
Buffalo National Park	604	2,708	63 Campaga . I	9,626	10,45	
Conton	958	798	71. Vermilion River	9,557 6,742	9,66	
Coronation	784	738	73. Beaver	6,883	7,31 7,20	
Castor Coronation Daysland Hardisty Provost	499	475 536	71. Vermilion River	7,114 7,700	7,72	
Provest	628 878	536 676	82. Lamont	7,700 56	8,77	
Stettler	3,359	2,442	Cities:	56]	. 5	
Wainwright	2,653	1,996	Camrose	5,817	4,13	
Villages: Alliance	313	281	Towns:			
Alliance Amisk Big Valley Botha Chauvin	151	i	Lloydminster (pt.)	2,506	1,70	
Big Valley	354	307	Mundare	650	59	
Chauvin	102 353	98	Toffield	800)	69	
	153	123	Two Hills	713 2,574	52 2,22	
Czar Donalda	256	318	Vegreville Vermilion Viking	2,196	1,98	
Edgerton	292	309	Viking	897	68	
Gadsby	552 145	443 128	Villagess: Andrew	602	62	
Galahad	215	198	Bashaw	597	60	
Edgerton Forestburg Gadsby Galahad Halkirk Hughenden	209	148	Bawlf Bittern Lake Bruderheim	287	23	
Irma	212 421	218 369	Bruderheim	45 290	2 38	
Killam	524	465	Chipman	192	18	
Irma Killam Lougheed Sedgewick	201	186	Derwent	289	23	
Sedgewick	608	485	Chipman Derwent Edberg Ferintosh Hairy Hill Hay Lakes Holden Innisfree Kitscoty	167	18	
Strome	306	276	Hairy Hill	195 183	20 20	
Division No. 8	64,168	57,513 12,243	Hay Lakes	193	23	
55. Red Deer	12,830	12,243	Holden	544	50	
Division No. 8 55. Red Deer 64. Lacombe 65. I.D.—D.A. 68. I.D.—D.A. 68. I.D.—D.A.	8,351 5,199	8,612 6,066	Kitscoty	318 283	28' 23'	
68. I.D.—D.A.	81	194	Kitscoty	632	63	

POPULATION OF CENSUS DIVISIONS OF ALBERTA CLASSIFIED BY MUNICIPALITIES FOR CENSUS YEARS, 1951 AND 1956 (Con'td)

Division and Subdivision	Tota		Division and Subdivision	Tota	al
	1956	1951		1956	1951
Division No. 10—Continued:	1	j	Division No. 13—		
Villages—Continued:	197	122	Continued:		
Lavoy	127 599	528	Towns: Athabasca	1,293	1,0
Mannville Marwayne	337		Barrhead Redwater Westlock	1,610	1,2
Minburn Myrnam	150	186	Redwater	1,065	1,3
Myrnam	440	388	Westlock	1,136	1,1
New Norway Ryley Willingdon	273 495	258 406	Villages: Alberta Beach	127	
Willingdon	431	281	Boyle Beach	304	
			BoyleClyde	221	2
74. Wetaskiwin 77. Leduc 77. I.D.—D.A. 83. Strathcona 84. Stony Plain 90. Sturgeon River Indian Reserves Cities:	323,539	235,475	Mayerthorpe Onoway Radway Sangudo Thorhild	563	4
74. Wetaskiwin	9,466	8,822	Onoway	190	1
77 I D D A	11,497 3,259	12,526	Radway	203 331	1 2
83. Strathcona	8,873	1,310 7,591	Thorhild	288	. 2
84. Stony Plain	8,491	8,962			
90. Sturgeon River	13,865	11,174 1,208	78. I.D.—D.A	15,846	14,4 3,7
Indian Reserves	1,786	1,208	78. I.D.—D.A	3,444] 2,234	$\frac{3,7}{3,9}$
Cities.	226,002	150 631	79. I.D.—D.A	4,696	0,5
Edmonton	4,476	3,824	96 I D — D A	314	2,5
Towns:			96. I.D.—D.A	1,693	1,5
Beverly	4,602	2,159	Towns:		
Calmar	730	944	Edson	2,560	1,9
Devon Drayton Valley	1,429 2,588	842	Villages:	358	
Fort Saskatchewan	2,588	1,076	Evansburg Wildwood	547	4
Jasper Place	15,957	9,139	VIII VOOG	011	
Leduc	2,008	1,842	Division No. 15	70,417	61,8
Morinville St. Albert	957	892	110. I.D.—D.A. 111. I.D.—D.A.	346	
St. Albert	1,320	1,129	111. I.D.—D.A	241	3
Stony PlainVillages:	1,098	878	123. I.D.—D.A	3,216	2.8
T-41-41-	354		125. I.D.—D.A.		3.2
Itaska Beach	2		126. I.D.—D.A.	2,427	2,1
Lakeview	41	15	128. I.D.—D.A	947	5
Itaska Beach Lakeview Legal Ma-Me-O Beach Millet	457	523 98	129. I.D.—D.A.	877	4.5
Millet Beach	137 427	402	130. Smoky River	3,955 2,413	4,3
		163	132 I D — D A	3,133	2,9
Silver Beach Silver Beach Spruce Grove Thorsby Warburg	17	******	125. I.D.—D.A. 126. I.D.—D.A. 128. I.D.—D.A. 129. I.D.—D.A. 130. Smoky River 131. I.D.—D.A. 132. I.D.—D.A. 133. Spirit River 134. I.D.—D.A. 135. Peace 136. Fairview	1,413	1,4
Spruce Grove	309		134. I.D.—D.A	2,633	2.6
Thorsby	411 257	385	135. Peace	1,732	1,7
warburg	201		136. Fairview	1,885 127	2,0
Division No. 12	44,947	39,886	136. Feace 136. Fairview 137. I.D.—D. A. 138. I.D.—D. A. 139. I.D.—D. A. 144. I.D.—D. A. 145. I.D.—D. A. 146. I.D.—D. A.	3,489	4.2
Division No. 12 85. I.D.—D.A. 86. St. Paul	348	208	139. I.D.—D.A	2,635	3,0
86. St. Paul	7,979	9.041	144. I.D.—D.A	26]
87. Bonnyville	10,058	6,744	145. I.D.—D.A	136	
89. Smoky Lake	5,517 2.039	6,292 2,235	146. I.D.—D.A	634 2,500	1,5
102. I.D.—D.A.	5.066		147. I.D.—D.A. 149. I.D.—D.A.	122	1,0
121. I.D.—D.A	197	274			
121. I.D.—D.A	879	835	No. 1	8,899	10,1
Wood Builalo National	143	36	Indian Reserves	3,032	3,2
Wood Buffalo National Park (pt.) Indian Reserves	3,530	3,168	Towns:	768	5
			Beaverlodge Fairview	1,260	
Bonnyville	1.495	1,139	ramer	802	
Cold Lake	1,097		Grande Prairie Grimshaw	6,302	2,6
Lac La Biche	967 1,110	905 926	Grimshaw	904	1 5
McMurray St. Paul	2,229	1,407	High Prairie McLennan Peace River Spirit River	1,743 1,092	1,1
Villages:	1		Peace River	2,034	[1,€
Elk Point	594		Spirit River	743	
Glendon	314		Vinages:		
Smoky Lake Vilna	563 374		Berwyn	342 265	2
Vilna Warspite	159	010	Donnelly Girouxville Hines Creek	300	
Waskatenau	289		Hines Creek	360	
	1	Ĭ	Hythe	481	
Division No. 13	45,033	46,638	Kinuso	306	
92. Westlock 93. Lac Ste. Anne 103. Athabasca 106. Barrhead	8,731 6,892	8,795 7,282 8,200	Hythe Kinuso Manning Rycroft Sexsmith	726 424	3
103. Athabasea	7,367	8.200	Sevemith	345	3
106. Barrhead	5,944	6 501	Valleyview	973	
107. I.D.—D.A.	1,502	1,699	Valleyview Wembley	272	1
107. I.D.—D.A. 108. I.D.—D.A. 122. I.D.—D.A.	781	770			
122. I.D.—D.A.	557	550			
Thorhild County No. 7 Indian Reserves	5,596 332	6,174			
indian iteserves	. 002	213	II .		

TABLE 1: GENERAL SUMMARY OF VITAL STATISTICS FOR CENSUS DIVISIONS, ALBERTA, 1956

				131314	142, 1								_
CENSUS DIVISIONS	Total	Wale	Female straight	Live Births in Hospitals	Illegitimate Births	Stillbirths	Marriages	Excess Births Over Deaths	Total Deaths	Hospital Deaths	Infant Deaths	Neo-natal Deaths	Maternal Deaths
Division No. 2	34951 1256 2244	17986 623 1190 284 485 195 4004 458 1291 410 581 5483 458 615 607 507	633 1054 297 418 225 3800 1267 383 527 5084 440 536 569 499 559	33777 1216 2127 551 892 405 7747 843 2512 729 1074 10529 852 954 1133 868 1109	1674 27 106 10 21 12 395 14 106 39 28 518 30 71 55 131	10. 14 300 2 12. 15 87 14 300 12 10 124 15 10 124 15 10 12 14	9965 373 755 73 149 94 2545 187 794 193 3291 110 217 280 155 277	27165 957 1689 478 651 309 5939 666 1896 588 789 8623 731 930 839 834	7786 299 555 103 252 111 1865 252 205 319 1944 167 221 337	187 360 68 166 68 1230 163 457 140 245 142 107 148 220 100	0 68 9 9 9 8 8 8 8 161 162 27 58 6 16 22 27 1 242 27 32 5 38 5 38 8 37 9 31	573 10 50 7 20 7 115 14 44 7 21 170 2 2 2 18 18 18 22	144

TABLE 2: GENERAL SUMMARY OF VITAL STATISTICS FOR INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1956

URBAN PLA	CES C)F 1,U(DO POI	PULA	TION	AND	OVER		SERI.	A, 19	96		,
	Liv	e Bir	ths	S	به			Births					
CITY, TOWN OR VILLAGE	Total	Male	Female	Live Births in Hospitals	Illegitimate Births	Stillbirths	Marriages	Excess Birth Over Deaths	Total Deaths	Hospital Deaths	Infant Deaths	Neo-Natal Deaths	Maternal
Athabasca	51 57	23 31	28 26	51 57	7		27 54	31 36	20 21		2 9	6 1	
Barrhead Beverly	178	96	82	177	13	4	15	156	22		5	3 3	
Black Diamond	28	11	17	28	1	1	9	11	17	1	3	21 2	2
Blairmore	46	18	28	46	1	2	11	27	19		5	2	l
Bonnyville	65	40	25	65	3	2	36	51	14			2	
Bowness	255	129	126	255	8	3	29 29	216	39			7 5	- 1
Brooks	71 5851	3007	42 2844	5848	281	64	2090	55 4489	16 1362		9 9 9	73	3 2
Camrose	177	73	104	177	4	5	98	89	88				4
Cardston	88	43	45	72			98	60	28		5		
Claresholm	96	52	44	94	2	2	29	77	19	1	7	5 5	
Coleman	54	24	30	54		1	22	34	20	1		1]]
Didsbury	40	17	23	40	1 7		24	29	11		7	2 :	2
Drumheller Edmonton	125 8037	63 4182	62 3855	125 8033	432	95	80 2945	97 6574	28 1463				
Edson	141	78	63	140	7	2	51	11	30				5
Forest Lawn	92	53	39	92	8	ī	8	80	12		8	3	2
Fort Saskatchewan	108	53	55	108	2	1	25	99	9		6	2	
Grande Prairie	283	154	129	282	12	3	101	239	44		25		7
Hanna	70	26	44	70	3	1	45	47	23				2
High Prairie	75	40	35 23	73	5	2	35 44	59 12	16				1
High RiverInnisfail	48	25 22	26	48 48	3	1	38	25	36		25 [8]	3	3
Jasper Place	700	364	336	698	19	9	21	634			3 1		
Lacombe	105	54	51	105	3		42	69			27		
Leduc	81	41	40	81	3	1	34	67	14		9	1 :	1
Lethbridge	871	453	418	871	25	11	386	661	210				
Lloydminster	115	54	61 27	115	2	1	93 42	83	32				4
Macleod Magrath	81	54	11	79	2	1	11	17	14				5
McLennan	34	17	17	23	1	ī	10	27				2	i ::
Medicine Hat		280	292	571	17	4	281	370		13			5
Olds		37	36	73	2	2	46	58	1:	5 :	11		5
Peace River	131	67	64	127	16	1	35	106			17	3	2 .
Pincher Creek	60	36	24	58	3	2	24	39	2		12	2 5	2 .
Ponoka Raymond	135	66 30	69 30	135 57	6 4	1	50	85 41	50		36 13	3	5
Redcliff	70	42	28	70	i	1	6				14	2	2 .
Red Deer		252	232	484	10	7	209	400					7
Redwater			26	58	1		5			3	3	1	
Rocky Mtn. House	89	55	34	81	3	2	45	61			21		2
St. Albert	43	22	21	43			6				18	4	3
St. Paul		45	42	86			34				16	4	2 .
Stettler		84	63	147	4	1 2	61 55	115			25		2 .
Taber Three Hills			23		1	2	17				9		1 .
Vegreville			26	45			54				33	7	7 :
Vermilion			34	66			51	46			17		il .
Vulcan		24	17	41	1		14		1	1 :	11 .		
Wainwright	132		61	126		1	32				12		1 -
Westlock			19								6 .	- I	1
Wetaskiwin	126	61	65	120	3	2	93	70	5	01	45]	11	1 .

TABLE 3: DEATHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE, 1956

	_					PLA	CE OF	RES	IDE	NCE					
PLACE OF OCCURRENCE	Total (occurrence)	Nfld.	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Yukon	N.W.T.	U.S.A.	Other
Total (residence)	132677	3058	933	5738	4658	35042	47231	7058	6666	7786	13415	85	291	655	61
Newfoundland				1	1	2				·				5	
Prince Edward. Is	928		910	2	4	6	3		****		1			22	
Nova Scotia	5731 4731	4	2	5668	4567	56	7	1		1	2	1		78	
New Brunswick	34842	7	3	6		34519	149	2	2	3	4		1	77	29
Quebec	47448	2	2	27	11	324		59	21	10	19		4	346	8
Manitoba	7092		1			3		6905	62	3	8		10		. 4
Saskatchewan				1	1		13		6479	69	21			13	
Alberta	7764					1	17	14		7600	52		13		
British Columbia		1	1	1		7	15	17	33	53	13247			53	
Yukon	86							2			2	76	263		1
Northwest Territories			1	1		100		6 28	21	5 41	59	1	1		-
United States	654		1	18	25	120	340	28	21	41	59	1 1			1

TABLE 4: DEATHS AND HOSPITAL DEATHS BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS, ALBERTA, 1956

	T	OTAL :	DEATH	IS	DEAT	'HS IN	HOSPI	TALS
CENSUS DIVISIONS	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere
ALBERTA	7764	7786	164	186	5241	5246	102	107
Division No. 1	293 574 75 182 84 1945 221 744 155 241 2262 121 174 268 141 234 50	299 555 103 252 111 1865 252 662 205 319 1944 167 221 337 174 243		97 50 42	178 386 46 89 44 1318 140 540 91 171 1751 42 103 145 68 119	220 104		37 38 39 85 30 91 36 79 69 81 88 50 87 42 27 22

TABLE 5: DEATHS AND HOSPITAL DEATHS BY OCCURRENCE AND RESIDENCE FOR URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1956

	T	DTAL	DEATI	IS	DEAT	'HS IN	HOSPI	TALS
CITY, TOWN OR VILLAGE	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere
Athabasca Barrhead Beverly Black Diamond Blairmore Bonnyville Bowness Brooks Calgary Camrose Cardston Claresholm Coleman Didsbury Drumheller Edmonton Edson Forest Lawn Fort Saskatchewan Grande Prairie Hanna High Prairie High River Innisfail Jasper Place Lacombe Leduc Lethbridge Lloydminster Macleod Magrath McLennan Medicine Hat Olds Didsbury Drumhelir Edmonton Edson Forest Lawn Fort Saskatchewan Grande Prairie Hanna High Prairie High River Innisfail Jasper Place Lacombe Leduc Lethbridge Lloydminster Macleod Magrath McLennan Medicine Hat Olds Reymond Redeliff Red Deer Redwater Rocky Mountain House St. Albert St. Paul Stettler Taber Taber Three Hills Vegreville Vermilion Vulcan Wainwright Westlock Westlock Westlock Westlock Westlock	400 477 5 3 3 5 5 266 4 4 25 256 15577 1800 3 11 3 33 5 5 277 22 2008 8 3 4 4 5 4 5 2 2 2 2 3 8 8 2 2 2 2 2 2 2 2 2 2 2 2 2	200 211 222 177 194 44 396 166 1362 28 888 199 200 111 28 23 36 66 66 14 47 7 202 22 21 50 198 198 198 20 20 198 21 21 21 21 21 21 21 21 21 21 21 21 21	255 299 1 1 1 188 21 31441 1010 1010 1010 1010 1010 1010 10	3 16 3 3 146 12 9 7 8 8 3 3 3 12 12 12 25 25 27 8	211 45	122 199 155 133 155 160 160 160 160 160 160 160 160 160 160	188 455 657 133 188 188 188 188 188 188 188 188 188	53 131 151 301 655 33 799 886 655 111 223 522 119 664 112 3366 102 102 102 102 102 102 102 102 102 102

TABLE 6- CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA—1956

(INCLUDING CI	TIES, T	OWN	NS .	AN.	D '	VIL	LA	GES) IN	I A	LB	ERI	ΓA–	-19	56				
CAUSE OF DEATH (Intermediate List)	SEX	Total	Division No. 1	Division No. 2	Division No. 3	Division No. 4	Division No. 5	Division No. 6	Division No. 7	Division No. 8	Division No. 9	Division No. 10	Division No. 11	Division No. 12	Division No. 13	Division No. 14	Division No. 15	Division No. 16	Division No. 17
ALL CAUSES	Total Male Female	7786 4916 2870	188		64	169		1144	252 159 93	662 412 250	205 119 86	319 187 132	1944 1226 718	167 118 49	221 141 80	337 217 120	174 123 51	243 171 72	77 47 30
I. INFECTIVE AND PARASITIC DISEASES	Total Male Female	112 78 34	3	7 5 2	2	4	1	25 21 4	3 2 1	8 5 3	3 1 2	1	26 18 8		9 5 4	4		4	3 3
A 1 Tuberculosis of respiratory system A 2 Tuberculosis of meninges and central nervous system A 4 Tuberculosis of bones and joints A 5 Tuberculosis all	Male Female Male Female Male Female Male	25 111 2 1		2	1			3 1		2		1	12 3 1		1 3 1 		1	. 1	1
A 5 Tuberculosis, all other forms A 6 Congenital syphilis A 8 Tabes dorsalis	Female Male Female Male	1 3		 1				1	****	1						1			
A 9 General paralysis of insane A 10 All other syphilis	Female Male Female Male Female	12	 	2				4 5		1	1		2 1	1					
A 13 Paratyphoid fever and other Salmonella infections A 15 Brucellosis (undulant	Male Female Male Female Male	1 1 1 1 1 1								1								1	
fever) A 16 Dysentery, all forms A 19 Erysipelas	Female Male Female Male Female	1														1			
A 20 Septicaemia and pyaemia A 22 Whooping cough A 23 Meningococcal	Male Female Male Female Male	3 3		1				1	1		1		2		1	1	1 1		1
infections	Female	3			1	 		1					1			.		1	
A 30 Late effects of acute poliomyelitis and acute infectious encephalitis A 32 Measles	Male Female	3 2 1 1						2		1	1				1		1	1	
A 34 Infectious hepatitis		5 3	1			3	1		1	2			1 1		1	1			
II. NEOPLASMS	Total Male Female	1268 756 512	25 12 	55	9	23	15	167 161	34 28 6	45	17	31 24	209	14	23	3 27 3 20	17	31	10 4 6
A 44 Malignant neoplasm of buccal cavity and pharynx A 45 Malignant neoplasm of oesophagus		13 1 21 2 117	 				2	5				2		5		. 1	3	İ	
A 46 Malignant neoplasm of stomach A 47 Malignant neoplasm of intestine, except rectum A 48 Malignant neoplasm of rectum A 49 Malignant neoplasm	Female Male Female Male Female Male	61 80 58 45 18	1 3 3 4	3 6 2 3	3 3 2 2 3	. 3	3 5 1	14	822	3 3		$\begin{vmatrix} 7 \\ 2 \end{vmatrix} \begin{vmatrix} 2 \\ 2 \end{vmatrix}$	17	[2 1] [1 3	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	1 1
of larynx A 50 Malignant neoplasm of trachea, and of bronchus and lung not specified as secondary A 51 Malignant neoplasm	Male Female Male	1118	1	8		1	1	.] 4		5 4	2	6 2	3	3	1	5 5			
A 51 Malignant neoplasm of breast A 52 Malignant neoplasm of cervix uteri	Female	94	1	. 1	1	1	2 1	31		11	1	1	1	1	1		è	1 0	1

TABLE 6 — CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA—1956 (Con'td)

(INCLUDING CITES,																			
CAUSE OF DEATH (Intermediate List)	SEX	Total	Division No. 1	Division No. 2	Division No. 3	Division No. 4	Division No. 5	Division No. 6	Division No. 7	Division No. 8	Division No. 9	Division No. 10	Division No. 11	Division No. 12	Division No. 13	Division No. 14	Division No. 15	Division No. 16	Division No. 17
A 55 Malignant neoplasm of skin A 56 Malignant neoplasm of bone and connective tissue A 57 Malignant neoplasm of all other and unspecified sites A Other digestive organs (155-159) B Other respiratory organs (160, 164, 165) C Urinary organs (180, 181) D Brain and other parts of nervous system (193)	Female Male Male Female Male	21 70 9 5 8 8 191 137 83 53 4 2 57 16 19 14 28	5 1 3 2 2 2	1 5 1 21 11 12 11 3 1 4 3 2	1 1 3 1 2 2 1 	3 1 6 4 4 2 3 1	1	9 16 4 2 2 4 34 44 8 19 1 11 4 6 6	5	1 2 16 12	2 7 3 5 1 1	1 1 1 2 14 6 8 3 1 4 	18 14 154 31 23 9 16 6 5 4 10	3	1 1	1 5 6 5 2 1 4	1 3 1 2 1	2 11 4 5 2 5 1	1
A 58 Leukaemia and aleukaemia A 59 Lymphosarcoma and other neoplasm of lymphatic and haematopoletic system A Hodgkin's disease (201) B Other A 60 Benign neoplasms and neoplasms of unspecified nature	Male Female Male Female Male Female Male Female Male Female Male Female Total	52 32 22 37 22 9 3 28 19 12 15	1 3 2 1 1 2 	3 1 1 2 1 13		1 1 1 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 11 4 8 8 8 8 1 8 7 5 3	1	3133122	1 1 1 2	1 1 1 1 2	12 6 7 8 6 3 5 6 5 4	2	4	1	1	2 1 1 1 1 5	1
HI., IV. ALLERGIC DISORDERS AND ENDOCRINE META-BOLIC & BLOOD DISEASES A 62 Thyrotoxicosis with or without goitre and a 63 Diabetes mellitus A 64 Avitaminosis and other deficiency states A 65 Anaemias A 66 Allergic disorders; all other endocrine, metabolic and	Male	100 94 2 8 39 59 2 56 52 21	2 6 6 	3 7 1 2	1	3		29 20 1 1 10 9 17 10	1 3 3 3	2 5 5	1 3	3	26 20 1 14 13 1 2	1	1 2 2 2	8 6 6 1 2 4 1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2
blood diseases V. MENTAL, PSYCHONEUROTIC, AND PERSONALITY DISORDERS A 67 Psychoses A 68 Psychoneuroses and disorders of personality A 69 Mental deficiency	Total Male Female Male Female Male Female Male Female Male Total	31 15 16 9 7 6 3 6	61	1 1		3 2 1 2 		6 2 4 1 3 1 1 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 4 1 2 199	1	1	1	1	1 1 1	3
VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS A 70 Vascular lesions affecting central nervous system A 71 Nonmeningococcal meningitis A 72 Multiple sclerosis A 73 Epilepsy A 77 Otitis media and mastoiditis A 78 All other diseases of the ner- vous system and sense organs.	Male Female Male Female Male Female Male Female Male Female Male Female Male	472 423 415 391 8 5 4 4 4 8 5 34 4 4 18	31 30 29 27 1	28 23 23 1	5 6 6 6	18 13	10 1 10 1 1		25 17 20 17 1 	5 43 7 51 0 39 7 49 1	140 140 150 150 150 150 150 150 150 150 150 15	17 14 13	99 100 86 90 2 3 2 2 2 2 	111 6 1	111	30 20 28 19 11 1	4 4 4	11 11 11 11 11 11 11 11	1 1 1

TABLE 6—CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA—1956 (Con'td)

	(INCLUDING CITIES	, TOWN	IS A	ND	V	LL	AG	ES)	IN	AI	BE	RT	A—	-195	6 (Co	n'td)		
	CAUSE OF DEATH (Intermediate List)	SEX	Total	Division No. 1	Division No. 2	Division No. 3	Division No. 4	Division No. 5	Division No. 6	Division No. 7	Division No. 8	Division No. 9	Division No. 10	Division No. 11	Division No. 12	Division No. 13	Division No. 14	Division No. 15	Division No. 16	Division No. 17
VII.	DISEASES OF THE CIRCULATORY SYSTEM	Total Male Female	2544 1698 846	107 75 32	187 124 63	32 22 10	85 61 24	36 21 15	602 383 219		212 143 69	68 42 26	129 74 55	640 432 208	45 37 8	57 42 15	113 79 34	50 39 11	73 58 15	13 10 3
A 79 A 80 A 81 A 82 A 83 A 84 A 85 A 86	heart disease Arteriosclerotic and degenerative heart disease Other disease of the heart Hypertension with heart disease Hypertension without mention of heart Diseases of arteries	Male Female Female Female	4 45 51 1341 551 81 51 82 92 24 25 99 64 26 8	61 23 3 2 3 1 1 1 4 4 4 2 1	5 5 95 39 10 6 6 9 1 6 4	1 16 6 3 2 1 1 1 1	13 4 3 3 3 1 7	14 13 2 1 1 1 1 1 	1 11 13 293 143 12 9 22 27 8 11 29 13 8 2	32 32 23 24 7 8 3 1	4 4 115 45 9 3 7 7 2 1 6 8	3 1 34 20 1 3 3 1 2 1	5 62 34 5 2 3 9 	367 143 13 8 15 19 8 14 15 7	1 1 34 4 1 2 1 1	1 2 32 9 3 2 3 1 1 1	16	30 9 2 1 4 1	2 1 47 9 3 2 2 1 1 1 2 2	1 2 2
A 87 A 88 A 90 A 91 A 92 A 93 A 94 A 95 A 96	DISEASES OF THE RESPIRATORY SYSTEM Acute upper respiratory infections Influenza Definition Primary atypical, other and unspecified pneumonia Acute bronchitis Bronchitis, chronic and unqualified Hypertrophy of tonsils and adenoids Empyema and abscess of lung Pleurisy All other respiratory diseases	Total Male Female	519 315 204 4 3 23 12 300 16 115 36 10 7 30 15 2 2 2 2 2 1 2 2 2 3 2 3 3 3 3 3 3 3 3 3 3	177 8 9 9	5 5 2 3 1 1 7	1 1	1	8 5 5 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	844 577 277 1 1 100 3 3 211 15 8 8 6 6	144 777 33 111 144 11 22	37 222 15 	4 1	18 11 7	135 83 522 3 3 2 2 6 4 4 100 1 1 222 27 9 9 6 8 8 1 1 1 1 1 1 1 1 1 1 1 7 7	16 10 6 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7, 11, 1 7, 22, 11, 22, 11,	20 111 9 	15 7 8 2 2 2 2 1 1 1	222 111 111
IX.	DISEASES OF THE DIGESTIVE SYSTEM	Total Male Female	303 179 124	9 6	8	5	6 3	3 1 2	81 47 34	9 5 4	28 19 9	13 8 5	8	67 37 30	6 3 3	8	9	6 2 4	10 8 2	3 2 1
A103 A104 A106 A106 A106	supporting structures 9 Ulcer of stomach 10 Ulcer of duodenum 11 Gastritis and duodenitis 12 Appendicitis 13 Intestinal obstruction 14 Gastro-enteritis and colitis, 15 except diarrhoea of newborn 16 Cirrhosis of liver 16 Cholelithiasis and 17 cholecystitis	Male Female Total	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 1 1 1 1 1	11 11 12 22 22 22	1	1 1 2 2 1		1 1 4 4 2 2 5 5 1 1	1 1 1 1 1	6 1 5 2 2 3 3 3		1 1 1 2 2 4 4 5	22 25 5 2 2 5 7 7 6 6 8 8 7 4 4 1 1 4 4 9 9 5 5 4 8 8		1 3	1 1 2 2 1 1 2 2 1 1 2 2 1 1 4 4	1 1	2 2	2 1
	URINARY SYSTEM	Male Female	115	3	8	1		1	27	3	10	2	1	31			3 1	2	4 4	1
A10	8 Acute nephritis	Male Female	3		1		1		1						1	†			1	

TABLE 6 — CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA—1956 (Con'td)

(INCLUDING CITIES	, 101111	0 11.	. 12	* 1													· · · ·		
CAUSE OF DEATH (Intermediate List)	SEX	Total	Division No. 1	Division No. 2	Division No. 3	Division No. 4	Division No. 5	Division No. 6	Division No. 7	Division No. 8	Division No. 9	Division No. 10	Division No. 11	Division No. 12	Division No. 13	Division No. 14	Division No. 15	Division No. 16	Division No. 17
A109 Chronic, other and unspecified nephritis A110 Infections of kidney A111 Calculi of urinary system A112 Hyperplasia of prostate A114 Other diseases of genito-urinary system	Male Female Male Female Male Female Male Male Female	43 29 18 10 2 3 40 10 7	2 1 1 1	3 2 4 1	1	5 2 1 1 2 1	1	9 4 6 2 11 1 2	1	3 7 7 	1	1 3	13 8 4 5 2 2 8 4 2	1 3	1	1 2	1 1	3 3	1
XI. DELIVERIES AND COM- PLICATIONS OF PREG- NANCY, CHILDBIRTH, AND THE PUERPERIUM A115 Sepsis of pregnancy, child- birth and the puerperium A116 Toxaemias of pregnancy and the puerperium A117 Haemorrhage of pregnancy and childbirth A118 Abortion without mention of sepsis or toxaemia A119 Abortion with sepsis A120 Other complications of preg- nancy, childbirth and the puerperium	Female Female	14 2 2 2 1 1 1 8	1	1			1	3 1 1			1	3	2			1	1		
XII, XIII. DISEASES OF THE SKIN AND MUSCULO- SKELETAL SYSTEM	Total Male Female	40 26 14	2	3 1 2	1 1	2	1	5 4 1	1 1 	4 1 3	1 1	3	11 8 3		2 1 1	3 2 1		1	****
A121 Infections of skin and subcutaneous tissue	Female Male Female Male Female Male	6 4 7 7 5 2 2 1 11 4 4 173 93	1 1	1 1 15 8	41	1 6 2	1	1 2 2 2 36 19	1 	2 1 1 17 10	1 1	1 1	3 1 2 1 3 1 52 21	4 2 2 2	1 1 2	1 9 6		11 8	3 3
A127 Spina bifida and meningocele A128 Congenital malformations of circulatory system A129 All other congenital malformations	Male Female	80 6 9 54 30 33 41	2	7 2 1 5		2 2 1 1 1		17 2 2 11 6 6 9	1 1 2 2	4		2 4 2	31 4 4 8 16 9 11	1 2	2	3 5 1 1 2	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 3	2
XV. CERTAIN DISEASES OF EARLY INFANCY	Female	483 305 178		10		4	7 5 2	101 54 47	12 7 5	32 23 9	7 4 3	18	134 85 49	19 12 7	19 9 10	17 13 4	18 11 7	13	
A130 Birth injuries A131 Postnatal asphyxia and atelectasis A132 Infections of the newborn A133 Haemolytic disease of newborn A144 All other defined diseases of early infancy A135 Ill-defined diseases peculiar to early infancy, and immaturity unqualified	Male Female	51 26 87 33 20 21 12 15 12 13 70	1 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1	1	1	17 8 15 7 2 3 2 1 1 3 17 25		1 1 1 1	1 1 1	1 1 1 1 5 3	8 11 29 9 6 6 4 6 3 2 35 15		4 3 1 3 1 2 1	2 1 1 5	5 2 1 1 4 3	3 	1 2 1 1
XVI. SYMPTOMS, SENILITY, AND ILL-DEFINED CONDITIONS	Total Male Female	261 186 75		3	i	3 1		150 117 33	2 1 1	6	1		49 37 12	1	4 2 2	2	6 4	3	
A136 Senility without mention of psychosis A137 Ill-defined and unknown causes	Male Female Male Female	20 17 166 58	1 2	2	1	2	1	10 5 107 28	1 1		1	1	33 33		1 2	2	1 4 1	2	3

TABLE 6 — CAUSE OF DEATH BY SEX FOR CENSUS DIVISIONS (INCLUDING CITIES, TOWNS AND VILLAGES) IN ALBERTA—1956 (Con'td)

	,							, 111					100						
			-	2	3	4	2	9	1~	000	6	10	11	12	13	14	15	16	17
			No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
CAUSE OF DEATH (Intermediate List)	SEX													1	1		1 :		
		-E	Division	Division	Division	Division	isio	isio	isio	isio	ision	isio	ision	ision	ision	isio	Division	Division	Division
		Total	Div	Div	Div	Div	Division	Division	Division	Division	Divi	Division	Divi	Divi	Divisi	Division	Div	Div	Div
	1	1							1 -		1_	-				1			_
EXVII. ACCIDENTS, POISON- INGS AND VIOLENCE													1						
(CLASSIFICATION ACCORDING TO EXTERNAL	Total Male	782	33 25	65 53	18 13	22 15	18 14	156 108	22 16	78 59	22 15	24	187	26	21 16	35	25	27	3
CAUSE)	Female	204	8	12	5	7	4	48	6	19	7	5	51	6	5	14	2	5	
AE138 Motor vehicle	Male	206	10	11	2	4	2	42	7	25	4	5	61	6	5	5	7	8	2
accidents A Traffic accidents	Female Male	202	5 10	11	2	3 4	1 2	13 40	6	5 24	4	5	25 61	2 6	1 5	2 5	7	5	2
(810-825) B Non-traffic accidents	. Female Male	75	5	4	1	2	1	13	3	5	4	2	25	2		2	1	5	
AE139 Other transport	Female Male	2				1									1		1	1	
accidents	Female	24	3	3	1		1	4	1	4		1							
AE140 Accidental poisoning	Male Female	28	2	4				6	1 2	2	3	1	2		1	1	1	2	
AE141 Accidental falls	Male	48	1	9	1	2	2	2 7	1	3	1	2 2	13	2	1	11	2	1	
AE142 Accidents caused by	Female Male	39	1	3	1	3	2	10	3	5		3	12		2	2	1	1	
AE143 Accidents caused by fire and	Female	1														1			
explosion of combustible material	Male Female	24	1	3		2	1	2		1			4	2	1	2	1	2	
AE144 Accidents caused by hot sub-								1							1			Ì	
stance, corrosive liquid, steam, and radiation	Male Female	2 1		2				1											
AE145 Accidents caused by firearms	Male Female	11	1			1		2		1			1		}	4	2		
AE146 Accidental drowning and submersion	Male	37	2	4	4	1	2	3	1	1	1		9	1]	2	2	3	2	1
AE147 All other accidental	Female Male	11	3	6		1	2	3 16	1	4	4	4	9	3	2	3		2	
AE148 Suicide and self-	Female Male	13	1 2	51	2	1	2	21	1	9	2	4	23	3	1 2	3	3	2	
inflicted injuryAE149 Homicide and injury pur-	Female	28		2		1	1	11		2	2		6		1	2			
posely inflicted by other	Male	12	1	1				1		2			2	1		1	2	1	
persons (not in war)	Female	8			1			1		4			2						
NXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFI-	Total	782	33	65	18	22	18	15€	22	78	22	24	187	26	21	35	25	27	3
CATION ACCORDING TO	Male	578	25	53	13	15	14	108	16	59	15	19	136	20	16	21	23	22	3
NATURE OF INJURY)	Female	204	8	12	5	7	4	48	6	19	7	5	1	1	- 1	- 1			
AN138 Fracture of skull	Male Female	117	8	9	2	2	2	20	8	16	2	5	26	5 1	2	5	3	3	1
AN139 Fracture of spine and trunk	Male Female	36	1	5	1	1	2	3	1	3		2	9	1		2	2	3	1
AN140 Fracture of limbs	Male	28		1	1	2		4		3	1	2	10	17	1	2	2	1	
AN141 Dislocation without	Female Male	37	1	1				11	1										
AN143 Head injury (excluding	Female Male	81	7	5	4	2	2	20		7	2	1	17	2	1	3	4	4	
fracture)	Female	19	1 5	10	4	1	4	29	2	4	1	4	38	4	6	6	6	5	
abdomen, and pelvis	Male Female	141		1	1	1		5		3	î	3	12	2			1	2	
AN145 Laceration and open wounds	Male Female	9 1		3				2		1			1	1	1				
AN146 Superficial injury, contusion and crushing with intact	Male						1				į	1		1					
skin surface	Female	1		1															
AN147 Effects of foreign body entering through orifice	Male Female	6 5	1	1		1		1		1	1		1	1	1	1			
AN148 Burns	Male Female	20	1	4		1		2		1	1		5	3		1		1	
AN149 Effects of poisons	Male	46	2	6		1	1	10	1 2	4	4	1	6	1	2	2	2	3	
AN150 All other and unspecified	Female Male	93	2	9	4	1 2	3	16	4	9	3	4	23	2	3	2	4	2	1
effects of external causes	Female	32		2	1	1	3	8			1		8		2	5		1	

TABLE 7 — CAUSE OF DEATH BY SEX FOR URBAN PLACES OF 5,000 POPULATION AND OVER, IN ALBERTA—1956

CAUSE OF DEATH (Intermediate List)	SEX	Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Red Deer
ALL CAUSES	Total Male Female	3387 2099 1288	1362 826 536	1463 916 547	66 46 20	210 134 76	202 117 85	8 6 2
I, INFECTIVE AND PARASITIC DISEASES	Total Male Female	43 33 10	20 17 3	19 12 7			3 3 	
A 1 Tuberculosis of respiratory system	Male Female	10	2	7 3				
A 4 Tuberculosis of bones	Male Female	1		1				
and joints	Male	3	3					
A 9 General paralysis of insane	Female Male	4	4					
	Female			2				
A 10 All other syphilis	Male Female	6	4	1			3	
A 20 Septicaemia and pyaemia	Male Female	2	1	1			1	
A 23 Meningococcal infections	Male	1		1				
A 29 Acute infectious encephalitis	Female Male	1 1		1			1	
A 30 Late effects of acute poliomyelitis and	Female Male	2	2					
acute infectious encephalitis	Female	1						
A 34 Infectious nepatitis	Male Female	3	2	1			1	
A 43 All other diseases classified as infective and parasitic	Male Female	2	1	1				-
I. NEOPLASMS	Total Male Female	620 359 261	260 134 126	274 167 107	10 8 2	34 24 10	28 17 11]
A 44 Malignant neoplasm of buccal	Male	7		5	1			
cavity and pharynx	Female Male	7	3	4				
46 Malignant neoplasm of stomach	Female Male	50	1 24	23	2	1		
	Female	28	13	12 13		2	1	
47 Malignant neoplasm of intestine, except rectum	Male Female	36	18 15	16	·	1	3	
A 48 Malignant neoplasm of rectum	Male Female	22 10	7 5	10		2	3	
50 Malignant neoplasm of trachea, and of	Male Female	56	15	32	2	4	1	
bronchus & lung not specified as secondary A 51 Malignant neoplasm of breast	Male							
A 52 Malignant neoplasm of cervix uteri	Female Female	55	27	21		2	3	
unspecified parts of uterus	Female Male	11 33	12	12	1 2	1	5	
A 55 Malignant neoplasm of skin	Male	4	4					
56 Malignant neoplasm of bone and	Female Male	6	1 1	1 4				
connective tissue	Female Male	94	31	1 46	1	12	2	
and unspecified sites	Female	62	32	24		3	3	
A Other digestive organs (155-159)	Male Female	22		17	1	6	1 2	
B Other respiratory organs (160, 164, 165)	Male Female	1 1	1			1		
C Urinary organs	Male	29	10	15		2	1	
(180, 181)	Female Male	11	4 6	6		1		
system (193) E Other	Female Male	20		10		2		Ţ.,
3 0000	Female	20	9	9		1	1	
A 58 Leukaemia and aleukaemia	Male Female	17 10	9	6		1	2	
A 59 Lymphosarcoma and other neoplasms of	Male	15	5	7		1	1 1	
lymphatic and haematopoietic system A Hodgkin's disease (201)	Female Male	4		3				
B Other	Female Male	11	1 5	4			1 1	
	Female	111			1	1		

CAUSE OF DEATH (Intermediate List)	SEX	Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Red Deer
A 60 Benign neoplasms and neoplasms of unspecified nature	Male Female	10	5	5				
III, IV. ALLERGIC DISORDERS AND ENDOCRINE METABOLIC AND BLOOD DISEASES	Total Male Female	84 50 34	35 21 14	36 21 15	2 2	3 2 1	5 1 4	
A 62 Thyrotoxicosis with or without	Male	1	1					
goitre	Female Male	24	1 8	11	2	2	1	
A 65 Anaemias	Female Male	22	6	11		1	4	
A 66 Allergic disorders; all other endocrine, metabolic and blood diseases	Female Male Female	23	11 7	9 2				
V. MENTAL, PSYCHONEUROTIC, AND PERSONALITY DISORDERS	Total Male Female	13 5 8	6 2 4	7 3 4				
A 67 Psychoses	Male	1	1					
A 68 Psychoneuroses and disorders	Female Male	4	3	1 3				
of personality	Female Male	2	I	1				
•	Female	2		2				
VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	Total Male Female	399 198 201	154 74 80	152 74 78	7 5 2	25 13 12	51 25 26	1
A 70 Vascular lesions affecting central	Male	179	66	66	5	12	23	
nervous system	Female Male	183	74	69	1	12	24	4
A 72 Multiple sclerosis	Female Male	3 4	1	2	1		1	
	Female Male	2	1	2				
A 73 Epilepsy	Female	2	1			1	1	
A 78 All other diseases of the nervous system and sense organs	Male Female	10	5 5	5			1	
VII. DISEASES OF THE CIRCULATORY SYSTEM	Total Male Female	1108 708 400	419 253 166	491 331 160	16 9 7	76 46 30	78 51 27	1 1
A 79 Rheumatic fever	Male							
A 80 Chronic rheumatic heart disease	Female Male	1 12	5	5		2	1	
	Female Male	574	10 189	281	1 9	38	42	1
A 81 Arteriosclerotic and degenerative heart disease	Female	276	110	115	4	19	21	_
A 82 Other diseases of heart	Male Female	26	9	10		3	2	
A 83 Hypertension with heart disease	Male Female	36	17 21	14	1	2 5	2	
A 84 Hypertension without mention	Male Female	1 14	5 10	7				-
of heart	Male Female	35	23	8	1	1	3	
A 86 Other diseases of circulatory system	Male Female	13	5 2	6 2			2	
VIII. DISEASES OF THE RESPIRATORY SYSTEM	Total Male Female	190 122 68	57 41 16	94 58 36	6 4 2	18 12 6	9 3 6	
A 87 Acute upper respiratory infections	Male Female	1 3	1	1	1	1		
A 88 Influenza	Male	5		3	[2		
A 89 Lobar pneumonia	Female Male	17	8	9			1	
A 90 Bronchopneumonia	Female	36	3	13	3	5	11	
	Female Male	32	9	19	1	1	.2	
1 91 Primary atypical, other and unspecified pneumonia		13	3	5		2	1	

CAUSE OF DEATH (Intermediate List)	SEX	Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Red Deer
A 92 Acute bronchitis	Female Male	7 1 14	4	7 1 9		 1		
unqualified	Female Male	1 2	1	1)				
A 96 Pleurisy	Hemale Male Female	1 1		1				
A 97 All other respiratory diseases	Male Female	25	9	8 5	1	3	2 2	2
IX. DISEASES OF THE DIGESTIVE SYSTEM	Total Male Female	117 70 47	58 35 23	43 26 17	2 1 1	6 2 4	5 4 1	3 2 1
A 98 Diseases of teeth and supporting structures A 99 Ulcer of stomach	Female	5 1	1 3 1	2				
A100 Ulcer of duodenum	Male Female Male	9	3	1			1	1
A102 Appendicitis	Female	11		4				1
A104 Gastro-enteritis and colitis, except	Female Male	13	6 7 3	6				
diarrhoea of the newborn A105 Cirrhosis of liver	Female Male	11 19	5 11	3 5	1	1 1	1	
A106 Cholelithiasis and cholecystitis	Female Male	5	5	2		1	1	1
A107 Other diseases of digestive system	Female Male Female	9 13 7	4 4 3	3 7 3		1 1 1	1	
X. DISEASES OF THE GENITO- URINARY SYSTEM	Total Male Female	74 56 18	27 21 6	33 26 7	4 2 2	4 3 1		3 2 1
A109 Chronic, other and unspecified	Male Female	21	9	9	2 2		1	1
Al10 Infections of kidney	Male Female	9 2	1	1			1	
A111 Calculi of urinary system	Male Female Male	1 18	7	2 1 7		2		2
A112 Hyperplasia of prostate A114 Other diseases of genito-urinary system	Male Female	6 4	1 2	4		ī !	1	
XI. DELIVERIES AND COMPLICATIONS OF PREGNANCY, CHILDBIRTH AND THE PUERPERIUM	Total	4	2	1	1			
A115 Sepsis of pregnancy, childbirth and the puerperium	Female	1	1]]		
A119 Abortion with sepsis A120 Other complications of pregnancy, childbirth and the puerperium	Female	1 2	1		1			
XII, XIII. DISEASES OF THE SKIN AND MUSCULO-SKELETAL	Total Male	12	4 4	4	1 1	1	2	1
SYSTEM		6				1	2	
A121 Infections of skin and sub- cutaneous tissue	Male Female	1 2		1 1			1	
A122 Arthritis and spondylitis	Female	3 2	2	1			1	
A125 Ankylosis and acquired musculo- skeletal deformities	Male Female Male	1 2	 2			1		
musculoskeletal system		1 1		1				

	1	1	1			1 1		1
CAUSE OF DEATH (Intermediate List)	SEX	Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Red Deer
XIV. CONGENITAL MALFORMATIONS	Total Male Female	81 41 40	26 15 11	40 16 24	2 1 1	10 7 3	1	2 1 1
A127 Spina gifida and meningocele	Male	6	2	4				
A128 Congenital malformations of	Female Male	23	9	3 6		6	1	1
circulatory system A129 All other congenital malformations	Female Male Female	19 12 17	4 4 6	12 6 9	1	1 1 2		1
XV. CERTAIN DISEASES OF EARLY INFANCY	Total Male Female	198 120 78	64 33 31	99 59 40.	9 8 1	16 12 4	5 3 2	5 5
A130 Birth injuries	Male	21	12	5	1			3
A131 Postnatal asphyxia and atelectasis	Female Male	13	4 7	8 23	1	5		
A132 Infections of the newborn	Female Male	13	4 2	3		1	1	****
A133 Haemolytic disease of newborn	Female Male	9	1	6		1 1	1	****
A134 All other defined diseases of	Female Male	7 4	1	6	1	1		
early infancy	Female Male Female	3 43 33	10 20 20	23 12	2	5 1	3	
XVI. SYMPTOMS, SENILITY AND ILL-DEFINED CONDITIONS	Total Male Female	175 139 36	130 105 25	40 31 9		2 2	2	1
A136 Senility without mention of	Male	12	8	3		1		
psychosis	Female Male Female	9 127 27	5 97 20	28 6		1	1	1
EXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO EXTERNAL CAUSE)	Total Male Female	269 192 77	100 71 29	130 91 39	6 5	15 11 4	10 7 3	8 7 1
AE138 Motor vehicle accidents	Male Female	83 35	28 11	40 21	4	3	2	6
A Traffic accidents (810-825)	Male Female	81	27 11	40	4	3	2	5
B Non-traffic accidents	Male Female	2	1					1
AE139 Other transport accidents	Male Female	10	4	4			2	
AE140 Accidental poisoning	Male Female	6	4			2		
AE141 Accidental falls	Male Female	17	7	9	1	1 1	1	
AE142 Accident caused by machinery	Male Female	4		4			[
AE143 Accident caused by fire and explosion of combustible material	Male Female	4	1	1	1	1		
AE144 Accident caused by hot substance, corrosive liquid, steam, and radiation	Male Female	1	11					
AE145 Accident caused by firearm	Male Female	1	1			****		
AE146 Accidental drowning and submersion	Male Female	7	3	4				
AE147 All other accidental causes	Male Female	15	7	8	[{	1	****
AE148 Suicide and self-inflicted	Male Female	40	15	19		3 2	2	1
AE149 Homicide and injury purposely inflicted by other persons (not in war)	Male Female	5 2	1	2		ī	1	
NXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO NATURE OF INJURY	Total Male Female	269 192 77	100 71 29	130 91 39	6 5 1	15 11 4	10 7 3	8 7 1
AN138 Fracture of skull	Male Female	41	13	18	2	2	2	4
	Female	18	- (10	****	[****	7

CAUSE OF DEATH (Intermediate List)	SEX	Total	Calgary	Edmonton	Jasper Place	Lethbridge	Medicine Hat	Red Deer
AN139 Fracture of spine and trunk	Male Female	10	2	6		2		
AN140 Fracture of limbs	Male	10	4	6				
	Female	15	4	9	1		1	
AN141 Dislocation without fracture	Male	1	1				[
	Female	1	[[[
AN143 Head injury (excluding fracture)	Male	33	13	12		2	5	1
	Female	9	6	3)	
AN144 Internal injury of chest,	Male	50	20	25	2	1	ا[2
	Female	16	4	11		1		
AN145 Laceration and open wounds	Male	1 1		1			[
	Female	1				1		
AN147 Effects of foreign body entering	Male	1 1 4	1	1				
through orifice		1					1	
AN148 Burns	Male		1	2	1			
	Female	2	1 6	1]	
AN149 Effects of poisons	Male	14	6	4		4		
	Female	8	4	3		1		
AN150 All other and unspecified effects	Male	26	10	16				
of external causes	Female	6	3	2		1]	***

TABLE 8—DEATHS, BY CAUSE AND SEX, BY AGE, ALBERTA—1956

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	70-74 years	1054 688 366		m :						* ====	1 1		 				
	65-69 years	869 584 285					1 1			 			 				
	60-64 years	383 202				7		1 1					 				
	55-59 years	412 288 124		e —						⁻ <u>`</u>							
	50-54 years	323 224 99	10	m =		1 1	1 1	1 1		1	1	7	਼ਜ -				
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	SEX	Total Male Female	Total Male Female	Male	Male Female Male	Female Male Femele	Male Wale	Male	Male Female	Male	Male	Male	Fems Male	Female Male	Fema	Fems Male	Male Female
	CAUSE OF DEATH (Intermediate List)	ALL CAUSES	I. INFECTIVE AND PARASITIC DISEASES	Tuberculosis of respiratory	system 2 Tuberculosis of meninges and central nervous system 4 Tuberculosis of bones and joints	5 Tuberculosis, all other forms	6 Congenital syphilis	8 Tabes dorsalis	9 General paralysis of insane	A 10 All other syphilis	A 12 Typhoid fever	A 13 Paratyphoid fever and other	Salmonella infections A 15 Brucellosis (undulant fever)	A 16 Dysentery, all forms	A 19 Erysipelas	20 Septicaemia and pyaemia	A 22 Whooping cough

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	CAUSE OF DEATH (Intermediate List)	A 23 Meningococcal infections A 28 Acute poliomyelitis A 29 Acute infectious encephalitis A 30 Late effects of acute poliomyelitis and acute infectious encephalitis A 34 Infectious hepatitis A 34 Infectious hepatitis A 43 All other diseases classified as infective and parasitic A 44 Mailgnant neoplasms of buccal cavity A 5 Mailgnant neoplasm of escophagus A 6 Mailgnant neoplasm of rectum A 8 Mailgnant neoplasm of rectum A 9 Mailgnant neoplasm of rectum A 9 Mailgnant neoplasm of rectum A 50 Mailgnant neoplasm of clarynx A 50 Mailgnant neoplasm of clarynx A 51 Mailgnant neoplasm of clarynx A 52 Mailgnant neoplasm of chackea, and of bronchus & lung not specified as secondary A 53 Mailgnant neoplasm of chackea. A 54 Mailgnant neoplasm of chackea. A 55 Mailgnant neoplasm of chackea. A 56 Mailgnant neoplasm of chackea. A 57 Mailgnant neoplasm of chackea. A 58 Mailgnant neoplasm of chackea. B 58 Mailgnant neoplasm of other and auspecified parts of uterus
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		CAUSE OF DEATH (Intermediate List)	A 69 Mental deficiency	VI.DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	A 70 Vascular lesions affecting nervous system A 71 Nonmeningococcal meningi	A 72 Multiple sclerosis	A 73 Epilepsy	A 77 Otitis media and mastoiditis	A, 78 All other diseases of the nervous and sense organs	VII. DISEASES OF THE CIRCULATORY SYSTEM	A 79 Rheumatic fever	A 80 Chronic rheumatic heart disease	81	A 83 Hypertension with heart disease	A 84 Hypertension without mention of heart	A 85 Diseases of arteries

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A 86 Other diseases of circulatory system		Acute upper respiratory infections Influenza	89 Lobar pneumonia	93 Bronchitis, chronic and unqualified 94 Hypertrophy of tonsils and	adenoids 95 Empyerna and abscess of lung 96 Pleurisy 97 All other respiratory diseases	IX. DISEASES OF THE DIGESTIVE SYSTEM	A 98 Diseases of teeth and supporting structures. A 99 Ulcer of stomach A100 Ulcer of duodenum A101 Gastritis and duodenitis A102 Appendicitis A103 Intestinal obstruction and hernia A104 Gastro-enteritis and colitis, excep diarrhoea of the newborn A105 Cirrhosis of liver
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TABLE 8 — DEATHS, BY CAUSE AND SEX, BY AGE, ALBERTA—1956 (Con'td)

	CAUSE OF DEATH (Intermediate List)	A106 Cholelithiasis and cholecystitis	X. DISEASES OF THE GENITO- URINARY SYSTEM	A108 Acute nephritis A109 Chronic, other and unspecified nephritis A110 Infections of kidney A111 Calculi of urinary system A112 Hyperplasia of prostate system	XI, DELIVERIES AND COMPLICATIONS OF PREGNANCY, CHLUBIRTH, AND THE PUERPERIUM	Al15 Sepsis of pregnancy, childbirth and the puerperium. Al17 Toxaemias of pregnancy & the puerperium. Al17 Hemorrhage of pregnancy and childbirth and Al19 Abortion with sepsis. Al20 Other complications of pregnancy, childbirth and the puerperium.
	SEX	Male Female Male Female	Total Male Female	Male Female Male Female Male Male Female Male Male Male	Total	Female Female Female Female Female
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TABLE 8 — DEATHS, BY CAUSE AND SEX, BY AGE, ALBERTA—1956 (Con'td)

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	CAUSE OF DEATH (Intermediate List)	ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO EXTERNAL CAUSE)	AE138 Motor vehicle accidents	A Traffic accidents (810-825) B Non-traffic accidents	AE139 Other transport accidents	AE140 Accidental poisoning	AE141 Accidental falls	AE142 Accident caused by machinery	AE143 Accident caused by fire and explosion of compustible material	AE144 Accident caused by hot substance, corrosive liquid, steam, and radiation	Accident caused by firearm	AE146 Accidental drowning and	AE147 All other accidental causes	AE148 Suicide and self-inflicted injury	AE149 Homicide and injury purposely inflicted by other persons (not in war)

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TABLE 9 — DEATHS, BY CAUSE AND SEX, BY AGE, EDMONTON—1956

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TABLE 8	CAUSE OF DEATH (Intermediate List)	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS	A 70 Vascular lesions affecting central nervous system A 71 Nonmeningococcai meningitis	72 Multiple sclerosis	A 78 All other diseases of the nervous system and sense organs	VII. DISEASES OF THE CIRCULATORY SYSTEM	A 80 Chronic rheumatic heart disease A 81 Arteriosclerotic and degenerative A 82 Other disease of heart A 83 Hypertension with heart disease A 94 Hypertension without mention A 95 Diseases of arteries A 96 Other diseases of circulatory system VIII. DISEASES OF THE RESPIRATORY SYSTEM	A 87 Acute upper respiratory infections
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Haemolytic disease of newball other defined diseases early infancy. Ill-defined diseases peculiar infancy, and immaturity u	SYMPTOMS, SENILITY, AND ILL-DEFINED CONDITIONS. Senlity without mention of psychosis. Ill-defined and unknown causes	VIOLENTE, POISONINGS, VIOLENCE (CLASSIFICATIO CORDING TO EXTERNAL C. Motor vehicle accidents Traffic accidents Traffic accidents (SH0-825) Other transport accidents Accidental falls Accident caused by fire and ex of combustible material accidental drowning and submersion All other accidental causes Suicide and self-inflicted injury Homicide and injury purposely by other persons (not in war)	ACCIDENTS, POISONING VIOLENCE (CLASSIFICA CORDING TO NATURE O Fracture of skull
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A133 Haemolytic disease of newborn A134 All other defined diseases of early infancy A135 Ill-defined diseases peculiar to infancy, and immaturity unq	XVI. SYMPTOMS, SENILITY, ILL-DEFINED CONDITIONALS Senility without mention operations and unknown caracteristics.	EXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO EXTERNAL CAUSES) AE138 Motor vehicle accidents A Traffic accidents (310-825) AE139 Other transport accidents AE141 Accidental falls AE142 Accident caused by fire and explosion of combustible material of combustible material accident allowning and AE146 Accidental drowning and AE146 Accidental accounting and AE147 Accidental accounting and AE148 Accidental acuses AE148 Homicide and self-inflicted and self-inflicted by other persons (not in war)	NXVII. ACCIDENTS, POISONINGS VIOLENCE (CLASSIFICATII CORDING TO NATURE OF I AN138 Fracture of skull
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TABLE 9 — DEATHS, BY CAUSE AND SEX, BY AGE, EDMONTON—1956 (Cont'd)

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TABLE 10 — DEATHS, BY CAUSE AND SEX, BY AGE, CALGARY—1956

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TABLE 10 - DEATHS BY CAUSE AND SEX BY AGE CALGARY-1956 (Con'td)

	CAUSE OF DEATH (Intermediate List)	VIII. DISEASES OF THE RESPIRATORY SYSTEM	A 87 Acute upper respiratory Infections	A 89 Lobar pneumonia A 90 Bronchopneumonia	ypical, other and pneumonia chronic and	Unqualified Empyema and abscess of lung	All other respiratory diseases FF	IX. DIGESTIVE SYSTEM THE DIGESTIVE SYSTEM W	A 99 Ulcer of stomach	A100 Ulcer of duodenum	A103 Intestinal obstruction and hernia	Alo4 Gastro-enteritis and colitis, except Not diarrhoea of the newborn Alo5 Cirrhosis of liver Not Alo5 Cirrhosis of	stitis
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A107 Other diseases of digestive system	X, DISEASES OF THE GENITO- URINARY SYSTEM	A109 Chronic, other and unspecified nephritis A110 Infections of kidney	A112 Hyperplasia of prostate A114 Other diseases of genito- urinary system	DE O	A115 Sepsis of pregnancy, childbirth and the puerperium	XII, XIII. DISEASES OF THE SKIN MUSCULO-SKELETAL SYSTEM	A122 Arthritis and spondylitis	A126 Al	XIV. CONGENITAL MALFORM	A127 Spina bifida and meningocele	A128 Congenital malformations of circulatory system A129 All other congenital malform	XV. CERTAIN DISEASES OF EARLY INFANCY	A130 Birth injuries A131 Postnatal asphyxia and atelectasis
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TABLE 10 — DEATHS, BY CAUSE AND SEX, BY AGE, CALGARY—1956 (Con'td)

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	CAUSE OF DEATH (Intermediate List)	A132 Infections of the newborn A133 Haemolytic disease of newborn A134 All other defined diseases of early infancy A135 Ill-defined diseases peculiar to early infancy, and immaturity unqualified	XVI. SYMPTOMS, SENILITY, AND ILL-DEFINED CONDITIONS A136 Senility without mention of A127 ILL-DEFINED CONDITIONS A	EXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION AC- CORDING TO EXTERNAL OAUSE)	AE138 Motor vehicle accidents A Traffic accidents (810-825) B Non-traffic accidents AE139 Other transport accidents AE140 Accidental poisoning AE141 Accidental falls

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AE143 Accident caused by fire and explosion of combustible material of combustible material accident caused by hot substance.  AE144 Accident caused by firearm and radiation.  AE145 Accident caused by firearm aE146 Accident all owning and submersion.  AE147 All other accidental causes accidental causes accidental causes by other persons inot in war).  AE148 Suicide and self-inflicted injury AE149 Homicide and injury purposely inflicted by other persons inot in war).  AVOIENCE (CLASSIFICATION ACCORDING TO NATURE OF INJURY)	AN138 Fracture of skull AN139 Fracture of spine and trunk AN140 Fracture of limbs AN141 Dislocation without fracture AN144 Internal injury of chest, abdomes AN147 Effects of foreign body entering AN148 Burns AN148 Burns AN149 Effects of poisons AN149 Effects of poisons AN140 AN140 Effects of poisons AN140 A
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TABLE 11—DEATHS, BY CAUSE A  CAUSE OF DEATH  (Intermediate List)	AND SE	SEX, B	der 15 Years	NARII NARII NARII NA II NA NAR	44 years Single 64 years	1 0 21 ROV 12		4 [윤]	Married AGE AGE 64 years	5   4	T SOL +	24 years	Ad years Wido W			rnnnre	oruary Fred	- 7723	Z Z	ALBERTA—1956 MONTHS WATER WATE	A H S K	g jsna	TOGITION		oper oper
A 59 Lymphosarcoma and other neoplasms of lymphatic and haematopoletic system A Hodgkin's disease (201)  B Other	Male Female Male Female Male	T 220 83	U 00 100			- N I I I	9 00 00		400:00	17: 12:10	g9		=		G9 40 H4		7년	IA OU U	- m - m	ut a ia ia	nr nnnnn	- BOH 10	9G 04HHH		OO OOO OO
A 60 Benign neoplasms and neoplasms of unspecified nature  III, IV. ALLERGIC DISORDERS AND ENDOCRINE METABOLIC AND BLOOD DISEASE	Female Male Female Total Male Female	112 112 1100 1000	N40 0104	1 44;	         	्य व्य	7 900	- <del> </del>	ин <u>4</u> 000	1873 31-				2 E E		1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2HH 404	146 20 1 22	112 21 122 1	18 14 9 9 9 5 5	ÇV III	2 1 8 4	ю н н <u>,</u> ю н		
A 62 Thyrotoxicosis with or without goifre A 63 Diabetes mellitus A 64 Avitaminosis and other deficiency states A 65 Anaemias A 65 Alargic disorders; all other endocrine, metabolic and blood diseases	Male Female Male Female Male Female Male Female Male	222 23882		H		w   W	на на		прн       н н	4901 2 84	117111	•		H H4 AH	12821 12801	H48H	0.4	H40 H100	10 1 20	HER 12 12 12 12 12 12 12 12 12 12 12 12 12	702 707	N800 H800	N HH		40 H 4
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TABLE 11 — DEATHS, BY CAUSE	AND SE	SEX, E	BY M	MARITAL	TAI		STATUS	JS A	US AND AGE,	AGE,	E, L	AND		HLUOM	I OF	- 1	DEATH		AE.	MO	ALBERTA-	1 02	-1956	<u>ق</u>	(Con'td)	
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A100 Ulcer of duodenum	Male Female Male	187 7	H			н :	H			4	00	111			NH :		4 14			H		7	111		N :: '	- I I
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XI. DELIVERIES AND COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERFERIUM	A115 Sepsis of pregnancy, childbirth and the puerperium A116 Toxacmias of pregnancy and the puerperium A117 Haemornhage of pregnancy and childbirth A119 Abortion with sepsis A120 Other complications of pregnancy, childbirth and the puerperium	XH, XHI. DISEASES OF THE SKIN AND MUSCULOSKELETAL SYSTEM	A121 Infections of skin and subcitaneous tissue A122 Arthritis and spondylitis A124 Osteomyelitis and periostitis A125 Ankylosis and acquired musculoskeletal deformities A16 All other diseases of skin and musculoskeletal system	XIV. CONGENITAL MALFORMATIONS	A127 Spina bifida and meningocele A128 Congenital malformations of circulatory system A129 All other congenital malformations	XV. CERTAIN DISEASES OF EARLY INFANCY	A131 Postnatal asphyxia and atleetasis are feetasis A132 Infections of the newborn A133 Haemolytic disease of newborn A134 other defined diseases of early infancy dearly infancy and immaturity unqualified infancy, and immaturity unqualified
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TABLE 11 — DEATHS, BY  XVI. SYMPTOMS, SENILITY, AND ILL-DEFINED CONDITIONS A136 Senility without mention of psychosis A137 Ill-defined and unknown causes EXVII. ACCIDENTS, POISONINGS, VIOLENCE (CLASSIFICATI ACCORDING TO EXTERNAL ACCORDING TO EXTERNAL ACCORDING TO EXTERNAL ACCIDENTS ACCORDING TO EXTERNAL ACCIDENTS A	

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Suici	Homicide and injury purp by other persons (not in	ACTION	rac	rac	Dislo	Tead	Internal injury of chest and pelvis	ace	upe	Effects of foreign body hrough orifice	Effects of poisons	All other and unspecified external causes
AE148 Suicide and self-inflicted	AE149 Homicide and injury purpo by other persons (not in v	H	AN138 Fracture of skull	AN140 Fracture of limbs	AN141 Dislocation without fracture	AN143 Head injury (excluding fr	AN144 Internal injury of chest, a and pelvis	45 1	46 5	47 }	AN149 Effects of poisons	AN150 All other and unspecified external causes
AEI	AEI	NXVII. ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO NATURE OF INJURY)	ANA	ANT	ANI	AMI	ANI	AN145 Laceration and open wounds	AN146 Superficial injury, contusion and crushing with intact skin surface	ANA	AN149	ANI

TABLE 12: INFANT DEATHS AND HOSPITAL INFANT DEATHS BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS, ALBERTA, 1956

	I		tal Death	s	I	nfant in Ho	Death spitals	ns s
CENSUS DIVISIONS	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere
ALBERTA	860	860	15	15	699	700	12	13
Division No. 2	73	20 68		3 3 6	16 61 9	57		2 6
Division No. 3	19 10	29	2	12	11 8	23	7 3	12
Division No. 6	24	161 20 58	4	10	146 19 42	15	5 5	
Division No. 9	18 21	16 27	5	3 9	13 19	26	5 2	9
Division No. 11	23	242 32 38		9 4	243 17 21	25	5 1 1	4
Division No. 14	37 31	37	7	7	26 25 18	3:		7
Division No. 16			1	5	5			5

TABLE 13; INFANT DEATHS AND HOSPITAL INFANT DEATHS BY OCCURRENCE AND RESIDENCE FOR URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1956

	I		tal Death	s	Infant Deaths in Hospitals				
CITY, TOWN OR VILLAGE	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere	
Athabasca Barrhead Beverly Black Diamond Blairmore Bonnyville Bowness Brooks Calgary Camrose Cardston Claresholm Coleman Didsbury Drumheller Edmonton Edson Forest Lawn Fort Saskatchewan Grande Prairie High Prairie High River Innisfail Jasper Place Ledouc Lethbridge Lloydminster Macleod Magrath McLennan Medicine Hat Olds Ponoka Raymond Redeliff Red Deer Redwater Redwater Redwater Rocky Mountain House St. Albert St. Paul Stettler Taber Three Hills Vegreville Vermilion Vulcan Walninght Westlock Wetaskiwin	39 16 16 16 55 55 11  111  98 84 22 77	10 10 10 10 10 10 10 10 10 10 10 10 10 1	2 2 3 3 3 5 1 1 3 3 3 4 4 4 0 7 7 7 7 7 5 5 7 7 7 7 7 7 7 7 7 7 7 7	33   22   22   23   24   24   25   25   25   25   25   25	555 66 67 77 77 2422 13 37 27 77 77 88 88 88 88 88 88 88 88 88 88 88	166	3 3 2 2 2 2 7 7 7 3 15 1 1 2 2 2 4 4 3 1 1 1 2 2 2 4 4 3 1 1 1 2 2 2 4 4 4 4 1 1 1 7 7 2 2 1 1 1 1 2 2 2 3 3 1 2 2 4 4 4 4 1 1 1 7 7 2 2 1 1 1 2 2 3 3 1 2 2 3 3 1 2 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 1 3 3 3 1 3 3 3 1 3 3 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 2 2 2 2 2 1 1 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	

TABLE 14—SELECTED CAUSES OF INFANT DEATHS BY SEX AND AGE AT DEATH, ALBERTA—1956

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DEATH   w	28 days and under 2 months	M.F.	34 31	
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	CAUSE OF DEATH		ALL CAUSES	Tuberculosis, all forms Syphiis Diseatery, all forms Whooping cough Meningeococcal infections All malignant neoplasms Bength neoplasms Bength neoplasms Strate of the cough Mental deficiency Meningtis (nonreningococcal) Otitis media deficiency Meningtis (nonreningococcal) Otitis media deficiency Meningtis (nonreningococcal) Otitis media aforted and infertion Influenca Fremia and intestinal obstruction Gastro-enteritis and colitis Congenital malformatinty —With immaturity —With immaturity —With immaturity Postnatal asphyxia and atlectasis—and —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity —With immaturity

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1. Includes Hodgkin's disease, leukaemia and aleukaemia.

TABLE 15—SELECTED CAUSES OF INFANT DEATH BY SEX AND AGE AT DEATH, ALBERTA—1956

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1. Includes Hodgkin's disease, leukaemia and aleukaemia.

CAUSES. 20 TABLE 16: DEATHS AT ALL AGES ACCORDING TO THE INTERNATIONAL ABBREVIATED LIST OF CANADA, 1956

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Malaria
All other diseases classified as infective and parasitic
All malignant neoplasms! Vascular lesions affecting central nervous system Nonmeningococcal meningitis disease Tuberculosis of respiratory system
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Typhoid fever CAUSE OF DEATH heart heart Benign and unspecified neoplasms Diabetes mellitus Arteriosclerotic and degenerative Hypertension with heart disease Hypertension without mention of Influenza Appendicitis Intestinal obstruction and hernia Ulcer of stomach and duodenum Rheumatic fever Chronic rheumatic heart disease Leukaemia and aleukaemia Meningococcal infections Other diseases of heart Hodgkin's disease Acute poliomyelitis Whooping cough Pneumonia Bronchitis Anaemias Smallpox Measles Int. abbrev List No.

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910	838	2,143	632	278	2,838	3,192	713	3,649	1,813	10,489	3,559	3.491	89	5,712	1,226	188	131,961
-		-	Hyperplasia of prostate			_		-	-	All other diseases	ĭ	Traffic accidents	Nontraffic accidents	All other accidents	_	Homicide and operations of war	All causes
B36	B37	B38	B39	B40	B41	B42	B43	B44	B45	B46	BE47			<b>BE48</b>	<b>BE49</b>	BES0	

1. Includes Hodgkin's disease, leukaemia and aleukaemia.

TABLE 17: DEATH RATES PER 100,000 POPULATION AT ALL AGES ACCORDING TO THE INTERNATIONAL ABBREVIATED LIST OF 50 CAUSES, BY PROVINCES—1956

	Тикоп Т. М. М.	121.1 26.3 26.3 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5
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-	Man.	$\begin{array}{c} 5.6 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\ 1.5 \\$
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-	N.B.	68 0.77 0.23 0.23 0.20 0.20 0.20 0.20 0.20 0.20
	.S.N	5.9 1.4 1.4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5
	P.E.I.	4.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1
	.bild.	24.04.04.04.04.04.04.04.04.04.04.04.04.04
	Canada 1956	
	CAUSE OF DEATH	Tuberculosis of respiratory system Tuberculosis, of respiratory system Tuberculosis, of respiratory system Tuberculosis, of respiratory system Typhilis and its sequelae Syphilis and streptococcal sore throat Dysafetry, all forms Scarlet fever and streptococcal sore throat Dysafetry, all forms Scarlet fever and streptococcal sore throat Whooling cough Membrange cough Measles Typhis and other ricketistal diseases Malaria All malgrant neaplasms ⁴ Hodgkin's disease classified as infective and parasitic All malgrant neaplasms ⁴ Leukamia and aleukamia Benga and unspecified neoplasms Diabetes mellitus Nonmeningococcal meningitis Rheumatic fever Chronic rheumatic heart disease Chronic rheumatic heart disease Chronic rheumatic heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease Hypertension with heart disease
	Int. abbrev. List No.	HERE BESS BESS BESS BESS BESS BESS BESS B

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	25.0		:	-	33.3	8.3	:	66.7	:	75.0	25.0	25.0	:	116.7	25.0	:	_	708.3	
5.5																		958.9	
6.0																		693.3	
4.0																		756.6	
4.4																		830.4	
4.0																		873.8	
7.9																		767.2	
80.57																		839.3	
3.5																		825.6	
8.1														•	4.0			942.4	
4.1																		736.9	
5.7	5.2	13.3	3.9	1.7	17.6	19.8	4.4	22.7	11.3	65.2	22.1	21.7	0.4	35.5	2.6	1.2		820.6	
B36   Gastritts, duodenitis, enteritis and colitis except diarrhoea of newborn	Cirriosis of in	-	Hyperplasia of prostate	140   Complications of pregnancy, childbirth and the puerperium	-	342 Birth injuries, postnatal asphyxia and atelectasis	-	Other diseases peculiar to early infancy	S45 Senility without mention of psychosis, ill-defined and unknown causes	346 All other diseases	M	Traffic accidents	Nontraffic accidents	48   All other accidents	Suicide and self-inflicted injury	50 Homicide and operations of war		All causes	hidas Wadribas discount Instruming and almitramia
B3	BS	BS	B3	B4	B4	B4	B4	B4	B4	B4	BE4			BE4	<b>BE49</b>	BES			200

1. Includes Hodgkin's disease, leukaemia and aleukaemia. 2. Less than 0.1 per 100,000 population.

TABLE 18: CERTAIN CAUSES OF DEATH, BY NUMBERS AND RATES FOR EACH YEAR OF THE LAST DECENNIAL PERIOD

20112120	
Rate per 100,000 population	244 250 264 265 268 268 268 268 268 268 268 268 268 268
Number of Deaths	1756 11178 11178 11178 1119 1106 1106 1109 1109 1109 1109 1109
Rate per 100,000 population	221 122 473 100 100 100 100 100 100 100 100 100 10
Number of Deaths	1896 937 200 200 200 200 219 34 119 10 10 10
Rate per 100,000 population	801 804 804 804 804 804 804 804 804 804 804
Number of Deaths	2033 957 1287 1587 1586 1586 1586 1586 1586 1586 1586 1586
Rate per 100,000 population	222 1110 140 140 100 100 100 100 100 100 10
Number of Deaths	050 9946 1233 1233 1233 100 100 100 100 100 100 100 100 100 1
Rate per 100,000 population	221 134 137 137 137 137 137 137 137 137 137 137
Number of Deaths	21113 1065 1268 3568 886 886 886 886 886 11111 1114 1117 1117 1117 1117 1117 11
Rate per 100,000 population	104000045100511
Number of Deaths	22 1074-7 12869 2889 2889 2889 1144-7 1401 1401 1401 1401 1401 1401 1401 140
Rate per 100,000 population	221 221 232 232 232 232 232 232 232 232
Number of Deaths	2274 1128 1288 108 108 108 108 108
Rate per 100,000 population	221 1221 1231 1301 14 4 4 4 4 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6
Number of Deaths	234 1154 1154 123 233 233 241 112 112 241 112 112 112 113 114 114 117 117 117 117 117 117 117 117
Rate per 100,000 population	22 122 123 123 123 123 123 123 123 123 1
Number of Deaths	2420 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 12340 1
Rate per 100,000 population	400008 400008 600008 700008
Number of Deaths	222 12558 3257 1158 3257 144 144 144 158 806 806 806 806 806 806 806 806 806 80
CAUSE OF DEATH	Diseases of the Heart Cancer Cancer Diseases of the Arteries Violent Deaths (Suicides Excepted) Purnomala (All Forms) Purnomay Tuberculosis Purnomay Tuberculosis Purnomatay Tuberculosis Appendicitis A
	Mumber of Deaths  Hate per 100,000  Mumber of Deaths  Rate per 100,000  Peaths  Hate per 100,000  Mumber of Deaths  Rate per 100,000  Hate per 100,000

TABLE 19: DEATHS OF INDIANS BY CAUSE AND SEX, BY AGE, ALBERTA, 1956

	CAUSE OF DEATH	ALL CAUSES	I. INFECTIVE AND PARASITIC DISEASES	A 1 Tuberculosis of respiratory	System A 2 Tuberculosis of meninges and	central nervous system 5 Tuberculosis, all other for	6 Congenital svohilis	. 7	A 12 Typhold tever	A 16 Dysentery, all forms	A 19 Erysipelas	A 90 Santicaemic and avacamic	a to populating and placema	A 22 Whooping cough	A 30 Late effects of acute poliomyelitis and	acute infectious encephalitis	A 52 Measies	A 34 Infectious hepatitis		II. NEOPLASMS	A 48 Malignant neoplasm of rectum
	SEX	Total Male Female	Total Male Female	Male	. Female Male	Female Male	Female	Female	Female	Male	Male Male	Female	Female	Male	Male	Female	Male	Male Francis	remaie	Total Male Female	- Male Female
	Total	284 148 136	27 15 12	10.0	200	-		П	H		H	- 0	4	- 0	0	FI F	7	2	:	18 8 10 10	H :
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	4 years	7	N N						; ; []	-	1 1	-	: :	-	1		-	1 1	: 		
	5-9 years	NHH	H H		: : H :	-	` : :		11	+	1 1	-;-	7	-	1	-	-	 	1	 	
	10-14 years	4.62		 						1				-			1				
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	20-24 years	1991		1	1					!	1 1	1		1	1		1	: :	1		
	25-29 years	13	н ін	1	H				1 1	i		-			1		-	11	1		
AO	30-34 years	1300	400	CN :	-					1		-	-		·  -	н	-	· 	-		
AGE	35-39 years	0107	ਜ ਜ	<u>.</u>					; <del>H</del>	· -	· T I	-			· 		-	: : T	-	N (N	
	sassy 96-64	400			-	 		: : : :	11	-	: : :=	-	-	-	-				-	고 : 드	
	50-54 years	22.8	6024		<del>-</del>	i i	 	 		-	-	- -			_	 	<u> </u>	67		H H	===
	55-59 years	2450								-							-			N N	
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TABLE 19: DEATHS OF INDIANS BY CAUSE AND SEX, BY AGE, ALBERTA, 1956 (Continued)

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Total   Total	77 Otitis media and mastoiditis female 78 All other diseases of the nervous Male 8 system and sense organs Female	VII. DISEASES OF THE Male 18 CIRCULATORY SYSTEM Female 19	A 79 Rheumatic fever         Male         1           A 80 Chronic rheumatic heart         Male         1           A 1 Arteriosclerotic and degenerative         Female         1           A 82 Other disease of heart         Female         1           A 85 Diseases of arteries         Female         2	II. DISEASES OF THE Female Female RESPIRATORY SYSTEM Male Female		wate Female Male Female Other than Male Female Onla Male	.ases

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TABLE 19: DEATHS OF	CAUSE OF DEATH SEX	IX. DISEASES OF THE TOTAL Male DIGESTIVE SYSTEM Female	A 99 Ulcer of stomach Female AlOl Gastritis and duodenitis Maile Female Male Female Male	t t	X. DISEASES OF THE GENITO- Total Wale URINARY SYSTEM	Male	XI. DELIVERIES AND COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND THE PUERPERIUM	Al16 Toxaemias of pregnancy and Female the puerperium
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TABLE 19; DEATHS OF INDIANS BY CAUSE AND SEX, BY AGE, ALBERTA, 1956 (Continued)

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	CAUSE OF DEATH	AE140 Accidental poisoning  AE143 Accident caused by fire and AE145 Accidents caused by fire and AE146 Accidents caused by firearm AE146 Accidents accidental causes AE148 Suicide and self-inflicted injury AE149 Fonicide and self-inflicted injury ACCIDENTS, POISONINGS AND VOLENCE (CLASSIFICATION AC- CORDING TO NATURE OF INJURY) AN139 Fracture of skull AN139 Fracture of skull AN147 Effects of scholen wounds AN147 Effects of foreign body entering through orfice AN148 Burns AN149 Effects of poisons AN149 Effects of poisons AN149 Effects of holsons AN140 AN140 Effects of boisons AN140 A

TABLE 20: DEATHS OF TREATY INDIANS BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1956

	CAUSE OF DEATH (Intermediate List)	ALL CAUSES	I. INFECTIVE AND PARASITIC DISEASES	A 1 Tuberculosis of respiratory	A 2 Tuberculosis of meninges and central nervous system A 5 Tuberculosis, all other forms	A 6 Congenital syphilis	A 20 Septicaemia and pyaemia	A 22 Whooping cough	A 30 Late effects of acute poliomyelitis and acute infectious encephalitis  A 34 Infectious hepatitis	II. NEOPLASMS	A 48 Malignant neaplasm of rectum bronchus and lung not specified as secondary A 51 Malignant neoplasm of breast A 52 Malignant neoplasm of cervix uteri
	SEX	Total Male Female	Total Male Female	Male	Male Female Male	Female Male	Male	Male Female	Male Female Male Female	Total Male Female	Male Female Vale Female Wale Female Male Female
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TABLE 20: DEATHS OF TREATY INDIANS BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1956 (Continued)

	CAUSE OF DEATH (Intermediate List)	A 53 Malignant neoplasm of other and unspecified parts of uterus.  A 54 Malignant neoplasm of prostate.  A 57 Malignant neoplasm of all other and unspecified sites.  E Other	A 59 Lymphosarcoma and other neoplasms of lymphatic and haematopoletic system B Other	III, IV. ALLERGIC DISORDERS AND ENDOCRINE METABOLIC AND BLOOD DISEASES	A 66 Allergic disorders; all other endocrine, metabolic and blood diseases	V. MENTAL PSYCHONEUROTIC, AND PERSONALITY DISORDERS	A 68 Psychoneuroses and disorders of personality	VI. DISEASES OF THE NERVOUS AND SENSE ORGANS	A TO Vascular lesions affecting central nervous system A TI Workous meningitis A T3 Epilmeny	A 78 All other diseases of the nervous system and sense organs
	SEX	Female Male Male Female Male	Female Male Female Male Female	Total Male Female	Male Female	Total Male Female	Male Female	Total Male Female	Male Female Male Female	Female Male Female
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TABLE 20: DEATHS OF TREATY INDIANS BY CAUSE AND SEX, BY AGE, IN ALBERTA, 1956 (Continued)

	CAUSE OF DEATH (Intermediate List)	A Traffic accidents  AE139 Other transport accidents  AE143 Accidental poisoning  AE143 Accident caused by fire and explosion of combustible material  AE146 Accidental drowning and AE147 All other accidental causes  AE148 Suicide and self-inflicted injury  AE149 Homicide and self-inflicted injury  AE148 Suicide and self-inflicted injury  AE148 Suicide and self-inflicted injury  AE148 Fracture of skull  AN14 Internal injury of chest, abone, abone, and pelvis  AN145 Laceration and open wounds  AN149 Effects of poisons  AN149 Effects of poisons  AN149 Effects of poisons  AN150 Caccation and unspecified effects
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A112 Hyperplasia of prostate A114 Other diseases of genito-urinary system	XI. DELIVERIES AND COMPLICATIONS OF PREGNANCY, CHILDBIETH, AND THE PUERPERIUM	Toxaemias of pregnancy and the puerperium Haemorrhage of pregnancy and childbirth	XIII. DISEASES OF THE SKIN AND MUSCULO-SKELETAL SYSTEM	A126 All other diseases of skin and musculo-skeletal system	XIV. CONGENITAL MALFORMATIONS	A129 All other congenital malformations	XV. CERTAIN DISEASES OF EARLY INFANCY	A130 Birth injuries A132 Infections of the newborn A134 All other defined diseases of early infancy infancy A135 Ill-defined diseases peculiar to early infancy, and immaturity unqualified	SYMPTOMS, SENILITY, AND ILL-DEFINED CONDITIONS	A136 Senility without mention of psychosis A137 Ill-defined and unknown causes EXVII, ACCIDENTS, POISONINGS AND VIOLENCE (CLASSIFICATION ACCORDING TO EXTERNAL CAUSE).	AE138 Motor vehicle accidents
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	ATCW OF WAR	CAUSE OF DEATH		ALL CAUSES	Tuberculosis, all forms	Syphilis  Syphilis  Whoming could forms	Windpling Codes (nonmeningococcal)	Acute upper respiratory infection	Influenza Pneumonia (4 weeks and over)	Bronchitis Hernia and intestinal obstruction	Gastro-enterits and courts Congenital malformations	Injury at birth—	-With immaturity		Preumonia of newborn—	-Without immaturity	With immaturity	Without immaturity	Other infections of the newborn—	—With immaturity	Nutritional maladjustment— ———————————————————————————————————	With immacurity Independent to	without immaturity	Immaturity	Ill-defined and unknown causes Inhalation and ingestion of food or other object	and parasitic diseases)	(Allergic, etc. diseases)	(Diseases of digestive system) ————————————————————————————————————	
					610-100	045-048	340	391, 392 470-475	480-483	500-502	571	760, 761	, ro	0. 291	5.	0.	.5	O.M	765-768	o rc	.0	.5 277	0,1	C. 777-777	795 E921, E922	Class I	Class VIII	Class IX	

M.F. IM.F. 10 months 6 months Z TABLE 22—SELECTED CAUSES OF INFANT DEATHS OF TREATY INDIANS BY SEX AND AGE AT DEATH. ALBERTA. 1956 M.F. 8 months N H 3 months 7 Σ 3 muquom 9 2 Z squow g Σ 3 sumouths 3 Z 4 3 months Ž 00 9 3 Z 2 months 7 28 days and under 2 months 3 C Σ AGE AT DEATH 2 2 41 18 23 M.F. Total 28 days to 1 year 1810 E 21-27 days Z. 2 14-20 days 2 × SHE Ŀ 7-13 days Σ M.F. e days 2 g gaks M 4 days Σ M.F. 3 days 2 days Z 1 day Z Under 1 day Z 00 6 M.F. Total under 28 days 32 23 14 Total 20 Female Total Under 1 Year 9 20 32 10 Male 200 18:22 Total Other infections of the newborn— —Without immaturity ...... Infective and parasitic diseases) Acute upper respiratory infection Hernia and intestinal obstruction Gastro-enteritis and colitis Allergic, etc. diseases)
(Diseases of respiratory system)
(Diseases of digestive system)
All other causes Ill-defined and unknown causes Pneumonia (4 weeks and over) to Meningitis (nonmeningococcal) CAUSE OF DEATH Ill-defined diseases peculiar Nutritional maladiustment-Congenital malformations RESIDUALS Pneumonia of newborninjury at birth— --Without immaturity -Without immaturity -Without immaturity -Without immaturity Diarrhoea of newborn--With immaturity --With immaturity -With immaturity -With immaturity -With immaturity ALL CAUSES -With Influenza Class III Class VIII Class VIII .0...5 0,10 340 470-475 480-483 190-493 500-502 560-570 571 750-759 774-776 773 764 772

squow II

TABLE 23A: LIVE BIRTHS OF INDIANS, BY MONTHS, 1956, ALBERTA (ALL INDIANS)

	MONTHS												
	Total	January	February	March	April	May	June	July	Angust	September	October	November	December
Province of Alberta	1565	128	130	138	124	134	143	142	129	134	121	111	131

TABLE 23B: LIVE BIRTHS OF INDIANS, BY MONTHS, 1956, ALBERTA ("LEGAL INDIANS")

-	MONTHS												
	Total	January	February	March	April	May	June	July	August	September	October	November	December
Province of Alberta	870	71	76	78	72	78	76	71	64	69	66	64	85

TABLE 24: LEGITIMATE AND ILLEGITIMATE BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS) BY PLACE OF RESIDENCE OF MOTHER, 1956, ALBERTA (ALL INDIANS)

	То	tal Birth	ns	Le	egitimate	-	Ille		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total	1565	821	744	1067	538	529	498	283	215

TABLE 25: LEGITIMATE AND ILLEGITIMATE BIRTHS OF INDIANS (EXCLUSIVE OF STILLBIRTHS) BY PLACE OF RESIDENCE OF MOTHER, 1956, ALBERTA ("LEGAL INDIANS")

	То	tal Birth	S	Le	egitimate	e .	Ille	egitimate	
	Total	Male	Female	Total	Male	Female	Total	Male	Femule
Total	870	468	402	592	296	296	278	172	106

# ANNUAL REPORT, 1956

TABLE 26A: LIVE BIRTHS OF INDIANS BY AGE OF PARENTS, ALBERTA. 1956

					AGE	OF	FATI	HER					ers	ers
AGE OF MOTHER (years)	Under 20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 and over	Not stated	Total born to married mothers	Born to un- married mothers Born to
14 years 15 years 15 years 16 years 17 years 18 years 19 years 20 years 21 years 22 years 22 years 24 years 25 years 26 years 27 years 28 years 30 years 30 years 31 years 32 years 32 years 33 years 34 years 35 years 36 years 37 years 38 years 39 years 39 years 31 years 40 years 41 years 42 years 42 years 43 years 44 years 44 years 45 years 46 years 47 years 48 years 48 years 49 years 49 years 49 years 49 years 49 years 49 years 49 years 41 years 42 years 44 years 45 years 46 years 47 years 48 years 49 years 49 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 49 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 49 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 49 years 40 years 41 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 49 years 40 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 40 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 40 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 40 years 40 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 40 years 40 years 40 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years	11 4 4 2 2 1 1 3 1 1	2 1 1 14 22 1 17 14 6 6 8 8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	246	223 3 6 8 9 6 15 14 4 18 17 30 0 18 16 6 9 10 8 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 4 4 4 3 3 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 6 3 3 3 7 7 5 5 5 11 10 12 16 6 12 2 1 1 1 1 1 1 1 1 1 1 1 1 1	33 3 3 8 5 7 7 5 100 7 7 7 2 1 3 3 3 3 3 8 5 5 7 7 5 100 7 7 7 2 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 1 1 1 1 1 1 2 2 2 2 1 1 3 3 3 2 2 2 2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	33 199 355 288 511 611 544 548 633 633 633 633 633 633 633 633 633 63	3 8 11 8 11 20 22 21 44 46 88 36 87 36 87 37 68 43 97 39 99 22 88 18 8 82 22 77 15 77 15 77 11 33 14 42 21 42 21 42 21 42 22 44 22 74 22 44 22 74 24 488 156

TABLE 26B: LIVE BIRTHS OF INDIANS BY AGE OF PARENTS, ALBERTA, 1956

					AGE	OF	FAT	HER					irs	ers	
AGE OF MOTHER (years)	Under 20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 and over	Not stated	Total born to married mothers	Born to un- married mothers	Born to all mothers
14 years 15 years 16 years 16 years 17 years 18 years 20 years 20 years 21 years 22 years 23 years 25 years 26 years 27 years 29 years 31 years 32 years 32 years 33 years 34 years 35 years 36 years 37 years 38 years 39 years 39 years 40 years 41 years 42 years 42 years 43 years 44 years 45 years 47 years 48 years 48 years 49 years 49 years 49 years 49 years 41 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 49 years 49 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 49 years 40 years 41 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 48 years 49 years 49 years 49 years 40 years 41 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 48 years 49 years 49 years 49 years 40 years 41 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 49 years 49 years 49 years 40 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 49 years 40 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 49 years 40 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 40 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 40 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 40 years 40 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 40 years 40 years 40 years 41 years 42 years 43 years 44 years 45 years 46 years 47 years 48 years 49 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40 years 40	1	1		1 1 5 5 3 3 2 2 9 11 114 11 121 100 11 1 6 6 6 6 6 6 5 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11 1 22 24 4 4 7 7 6 6 9 9 1 13 3 4 4 1 2 2 3 3 4 4 1 2 2 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	11 11 22 44 22 15 54 66 11 13 15 15 15 15 15 15 15 15 15 15 15 15 15	2112231111224444488888888888888888888888	1 1 1 3 2 2 2 2 4 4 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		1	2 6 6 12 15 27 21 13 3 21 12 3 3 13 11 10 10 6 6 9 4 4 5 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2 7 7 15 7 27 7 146 34 339 52 25 24 15 33 24 25 25 27 14 1 15 16 16 16 17 17 17 17 17 17 17 17 17 17 17 17 17

TABLE 27: BIRTHS BY PLACE OF OCCURRENCE AND PLACE OF RESIDENCE, 1956

	Other	%    4  000    Ltt
	.A.S.U	20 20 20 20 20 20 20 20 20 20 20 20 20 2
	.T.W.N	78 1 1 29 0 0 9 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Дпкои	184 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	B.C.	36,241 11 11 17 17 17 17 17 17 17 17 17 17 17
CE	Alta.	34,951 110 200 34,548 22 100 100
RESIDEN	Sask.	24,069 11 12 22,422 899 899
PLACE OF RESIDENCE	Man.	21,945 21,731 21,731 22,731 22,231 23,231 24,931
PL.	Ont.	143,516 2 2 1 277 277 220 142,972 6 6 6 7 7 7
	€ne•	135,884 2 3 23,125 11,460 1,460 2 6 6
	N.B.	16,573 2 49 3133 16,313 20 20 1 1
	и.s.	19,106 18,999 113,34 34,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 13,000 14,000 14,000 15,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16,000 16
	P.E.I.	2,657
	Ntld.	14,546 14,566 22 22 3 3 1 1 1 1
	Total Scentrence	451,512 14,522 1,631 19,928 134,315 14,936 224,168 34,133 36,133 4,735
	PLACE OF OCCURRENCE	Total (residence) Newfoundland Prince Edward Island Prince Edward Island Nova Scotia New Brunswick Ontario Manitoba Saskatchewan Alberta Alberta Tukon North West Territories United States

TABLE 28: LIVE BIRTHS AND LIVE BIRTHS IN HOSPITAL BY OCCURRENCE AND RESIDENCE FOR CENSUS DIVISIONS, ALBERTA, 1956

		TOTAL	BIRTHS		BIR	THS IN	HOSPIT	ALS
CENSUS DIVISIONS	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere
ALBERTA  Division No. 1  Division No. 2  Division No. 3  Division No. 5  Division No. 6  Division No. 6  Division No. 7  Division No. 7  Division No. 9  Division No. 10  Division No. 11  Division No. 12  Division No. 12  Division No. 13  Division No. 13  Division No. 14  Division No. 15  Division No. 15  Division No. 15  Division No. 15  Division No. 15  Division No. 16  Division No. 17	34,802 1,329 2,605 378 447 281 8,318 956 2,698 570 804 11,320 477 1,085 8,085 1,085 3,085 3,085	34,951 1,256 2,244 581 903 420 7,804 918 2,558 793 1,108 10,567 1,176 1,176 1,176 1,151 415	408 80 16 22 709 94 324 76 63 1,033 43 59	403 2222 47 283 472: 161 195: 566 184: 280 464 121 236 190 83	33,624 1,289 2,485 345 436 268 8,262; 2653; 503 11,289 428 896 1,041 7,168 1,74	33,777 1,216 2,127 551 892 405 7,747 843 2,512 729 1,074 10,529 852 1,133 868 1,109 236	245 293 403 75 16 20 707 86 319 67 62 1,029 38 58 143 59 138	398 220 45 281 472 157 192 55 178 293 3633 269 462 2166 235 187 79 68

TABLE 29: LIVE BIRTHS AND HOSPITAL LIVE BIRTHS BY OCCURRENCE AND RESIDENCE FOR URBAN PLACES OF 1,000 POPULATION AND OVER, ALBERTA, 1956

	Т	tal Li	ve Birt	hs	Live	Births	in Hos	pitals
CITY, TOWN OR VILLAGE	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere	Total by Occurrence	Total by Residence	By Occurrence; Residence Elsewhere	By Residence; Occurrence Elsewhere
Athabasca Barrhead Beverly Black Diamond Blairmore Bonnyville Bonnyville Bowness Brooks Calgary Camrose Cardston Claresholm Coleman Didsbury Drumheller Edmonton Edson Forest Lawn Fort Saskatchewan Grande Prairie Hanna High Prairie High River Innisfail Jasper Place Lacombe Ledue Lethbridge Lloydminster Macleod Magrath McLennan Medicine Hat Olds Peace River Pincher Creek Ponoka Raymond Redcliff Red Deer Redwater Rocky Mountain House St. Albert St. Paul Stettler Taber Three Hills Vegreville Vermilion Vulcan	233 218 228 2267 2113 251 252 266 226 226 226 226 226 226 226 226	511 577 1788 466 465 465 465 465 467 400 1255 581 177 589 1088 96 125 1088 96 125 1088 96 125 1088 96 125 1088 96 125 1088 96 125 1088 96 125 1088 96 125 1088 96 125 1088 96 125 1088 96 125 1088 96 125 1088 96 125 1088 96 125 1088 97 1088 111 111 111 111 111 111 111 111 11	186 165 165 165 165 165 165 165 165 165 16	4 4 178 28 46 5 255 4 107 8 4 4 4 5 8 8	2322 218 226 235 7,111 447 11,120 252 250 11,120 250 148 349 250 148 888 888 888 888 888 888 134 244 225 244 225 25 134 26 26 11,120 27 27 27 27 27 27 27 27 27 27 27 27 27	511 577 1777 288 466 465 2555 2555 2555 2555 2555 2555 2	185 165 165 165 165 165 165 165 165 165 16	11 7 70 25 58 8 43 7 13 9 2 3 8 5
Wainwright Westlock Wetaskiwin	262 338	49 126	220 223	7 11	262 326	49 120	220 216	7

TABLE 30: LIVE BIRTHS BY MONTH, 1956, ALBERTA

		Total	January	February	March	April	May	June	July	August	September	October	November	December
Province of	Alberta	34,951	2,846	2,713	2,984	2,872	3,060	3,078	3,095	2,996	2,983	2,836	2,716	2,772

TABLE 31: LIVE BIRTHS FOR CENSUS DIVISIONS BY TYPE OF ATTENDANCE, ALBERTA, 1956

		ATTI	ENDED B	Y	
Division No. 1	Total	Physician	Nurse	Midwife	Unattended and Not Stated
Division No. 2   Division No. 3   Division No. 4   Division No. 5   Division No. 6   Division No. 7   Division No. 7   Division No. 9   Division No. 10   Division No. 11   Division No. 12   Division No. 13   Division No. 14   Division No. 14   Division No. 15   Division No. 15   Division No. 15   Division No. 15   Division No. 15   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16   Division No. 16	34,951 1,256 2,244 581 903 420 7,804 918 2,558 793 1,108 10,567 898 1,151 1,176 1,008 1,151 415	34,215 1,225 2,169 575 894 415 7,682 913 2,534 780 1,102 10,534 885 1,094 1,136 925 1,126	237 7 30  86 1  2 2 1 12 6 6 6 6 6 6 6	166 23 38  6 5 5 4 11 4 1 1 1 2 8	33: 33: 11: 44: 35: 11: 66:

TABLE 32: LIVE BIRTHS IN INCORPORATED URBAN PLACES OF 1,000 POPULATION AND OVER BY TYPE OF ATTENDANCE, ALBERTA, 1956

		ATTI	ENDED B	Y	
CITY, TOWN OR VILLAGE	Total	Physician	Nurse	Midwife	Unatended and Not Stated
thabasca	51	51			
Barrhead	57	57			
Beverly	178	177			
Black Diamond	28	28			
Blairmore	46	46			
Bonnyville	65	65			
Bowness	255	255		1	
Brooks	71	71			
algary	5,851	5,850	(		
amrose	177	177	)	)	
ardston	88	88			
laresholm	96	96			
oleman	54	54			
idsbury	40	40			
rumheller	125	125			
dmonton	8,037	8,025		[	1
dson	141	140	]		
orest Lawn	92	92	]	****	
ort Saskatchewan	108	108			
rande Prairie	283	280	1		
anna	70	70			
igh Prairie	75	75			
igh River	48	48			
nisfail	48	48			
asper Place	700	699		****	
acombe	105 81	105	••••		
educ	871	871			
ethbridge	115	115			
acleod	81	81			
agrath	31	21		****	
cLennan	34	32	1		
edicine Hat	572	572			
ds	73	73			
eace River	131	126		1	
incher Creek	60	60			
onoka	135	135			
aymond	60	60		Ť	
edcliff	70	70			
ed Deer	484	484			
edwater	58	58			
ocky Mountain House	89	89			
t. Albert	43	43			
. Paul	87	87			
tettler	147	147			
aber	117	117			
hree Hills	42	42			
egreville	50	50			
ermilion	68	68		•	
ulcan	41	41			
ainwright	132	132		****	
Vestlock	49 126	49 126	****		
Vetaskiwin	(26)	17h			

### TABLE 33: LIVE BIRTHS BY AGES OF PARENTS, ALBERTA, 1956

				AG	E OF	FATI	HER						1	FE	
Age of Mother (years)	Under 20	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65 and over	Not stated	Total born to Married Mothers	Born to Unmarried Mothers	Born to All Mothers
13 years 14 years 15 years 16 years 17 years 18 years 20 years 21 years 22 years 22 years 23 years 24 years 25 years 29 years 30 years 31 years 32 years 32 years 33 years 34 years 34 years 35 years 36 years 37 years 38 years 39 years 40 years 41 years 42 years 42 years 43 years 44 years 45 years 47 years 48 years 49 years 49 years 50 and over Not stated Total fathers		8 622 1799 4899 7022 8588 8777 8044 727 2088 1311 777 35 229 111	4 20 79 167 347 578 828 646 432 40 21 220 40 2 2 7 7 5 4 4 10389	55 200 222 62 110 184 256 64 256 654 733 820 781 618 550 447 296 411 13 7 2 2	11 7 7 13 222 28 399 114 144 144 145 145 145 165 175 175 175 175 175 175 175 175 175 17	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		10 144 177 10 144 177 10 125 299 133 226 500 322 29 13 6 6 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	3 3 1 1 1 1 1 1 1 2 2 3 3 2 2 3 3 2 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	1156 1096 868 825 626 540 426 350 261 179 124 67 47 77 3	2 55 28 75 121 157 126 157 123 92 92 82 82 86 61 48 41 43 92 92 92 92 92 92 92 94 16 16 16 16 16 16 16 16 16 16 16 16 16	17 7 4 2

TABLE 34: LIVE BIRTHS BY AGE OF MOTHER AND BIRTH ORDER, ALBERTA, 1956

	Age of Mother	11.8	Total  34
	Total	11192020202020 1440202020202020202020202020202020202020	34,951
-	1st	1.14.14.14.14.14.14.14.14.14.14.14.14.14	9,397
	puz	1141234	8,952
	3rd	84444444444444444444444444444444444444	6,879
	ч₁ъ	222 222 222 222 222 222 222 222 222 22	4,211
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- 1	प16		282
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-	1291		33
-	<b>Ч19Т</b>		11
-	Ч14Т		12 5
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-	707 19th		-
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-	Dnss		7-1
-	23rd		-
-	Z2fP		-
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	чэгг		:

TABLE 35: MULTIPLE BIRTHS BY AGE OF MOTHERS, ALBERTA, 1956

		Single		Sets	of tv	vins	Se	ts of	triple	ts
Age of Mother (years)	Total Children Born	Liveborn	Stillborn	Both Liveborn	1 Liveborn 1 Stillborn	Both Stillborn	All Liveborn	1 stillborn	1 liveborn 2 stillborn	All Stillborn
Total 13 years	35,360 3 5 411 190 453 916 1,344 1,761 2,029 2,299 2,369 2,412 2,273 2,259 1,850 1,579 1,391 1,392 1,136 909 909	34,125 2 5 411 187 444 900 1,308 1,712 1,965 2,150 2,298 2,337 2,201 2,196 1,973 1,973 1,502 1,134 1,502 1,344 1,345 1,447 1,848 1,502 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,905 1,9	363 1 1 1 7 8 8 9 9 7 18 21 15 15 26 26 18 17 15 14 15 15 15 14 15 15 15 15 15 15 15 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	393 	222	12   1  1 2 1 3  1 1 1 1	1			
36 years 37 years 38 years 39 years 40 years 41 years 42 years 43 years 44 years 44 years 45 years 46 years 47 years 48 years 49 years 49 years 49 years 50 and over Not stated	854 657 571 443 370 276 190 133 71 50 18 8 4 2	815 623 539 435 348 258 181 126 67 49 17 7 4 2	13 14 9 8 3 7 5 5 4 1 1	13 9 9 9 8 3 2 1	1	1 1 	1 1 1			

TABLE 36: MARRIAGES BY MONTH OF MARRIAGE, 1956, ALBERTA

Total	 9,965
January	 398
February	 470
March	531
April	718
May	689
7	1.313
July	 1.012
August	 1.154
September	974
October	915
November	955
December	836

TABLE 37: MARRIAGES—AGES OF BRIDE BY AGE OF GROOM, ALBERTA, 1956

1	Not stated	
	75 and over	H000 #
	70-74 years	11111111111111111111111111111111111111
-	65-69 years	8   2000 E
-	60-64 years	χ 2
	55-59 years	4 H GH   10 H O A W   4
-	50-54 years	шн н н н н н н н н н н н н н н н н н н
-	49 years	
-	48 years	26 L L 2000 00 10 L L L L L L L L L L L L L L L
-	47 years	
	46 years	2
	45 years	H   H   K   K   K   K   K   K   K   K
-	44 years	
-	43 years	2
-	42 years	
-	41 years	
	40 years	
-	здвау ев	
-	38 years	1
-	S7 years	8
BRIDE	36 years	4 H 4H204T08000440H11 SOUTH 5
BR	35 years	1 1 2211110010014004000 92000 12000 00 1 1 1 00
OF	34 years	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AGE	33 years	1
V	32 years	00   175   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-55   51-5
-	31 years	1
	30 years	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1	29 years	1114488911000000000000000000000000000000
	28 years	224 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	27 years	1114 7 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	26 years	11111111111111111111111111111111111111
	25 years	E-12104649464421601888888416311
	24 years	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	23 years	[ _ : _ : _ : _ : _ : _ : _ : _ : _ : _
	22 years	11717177777777777777777777777777777777
	21 years	14 14 14 14 14 14 14 14 14 14 14 14 14 1
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	20 years	
	19 years	888 888 888 888 888 888 888 888 888 88
	18 years	8040201 0008848000
	17 years	200 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	16 years	112344888882111114200000 1-1
		HUF-2004-4-HUWH H
	Under 16	
	Total Bridegrooms	160000000000000000000000000000000000000
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	Age of Bridegroom	Under 18 years 18 years 22 years 23 years 23 years 24 years 25 years 25 years 25 years 26 years 27 years 28 years 29 years 29 years 30 years 30 years 31 years 32 years 34 years 36 years 36 years 36 years 37 years 38 years 39 years 41 years 42 years 43 years 44 years 45 years 46 years 56-59 years 66-64 years 76-77 years 76-77 years 80 and over Not stated
	Br	22. 22. 22. 22. 22. 22. 22. 22. 22. 22.

TABLE 38: MARRIAGES, MARITAL STATUS OF BRIDEGROOM BY STATUS OF BRIDE,  $1956,\ \mathrm{ALBERTA}$ 

	Total Marriages	MARRIAGES BETWEEN								
		Bachelors and		and	d Widowers and			Divorced Men and		
		Spinsters	Widows	Divorced Women	Spinsters	Widows	Divorced Women	Spinsters	Widows	Divorced Women
Alberta	9,965	8,577	229	346	96	210	40	277	45	145

TABLE 39: MARRIAGES, MARITAL STATUS BY AGE OF BRIDEGROOM, 1956, ALBERTA

<u> </u>		MARITAL	STATUS	
Ages	Total	Bachelors	Widowers	Divorced Men
Under 20 years 20-24 years 25-29 years 30-34 years 30-34 years 35-39 years 45-49 years 55-59 years 50-54 years 55-59 years 60-64 years 65-69 years 70-74 years 75-+ Not stated	508 4,525 2,792 937 418 228 163 112 78 70 55 51 28	508 4,506 2,711 797 311 135 77 49 24 15 11 6 2	3 9 16 22 20 39 34 43 49 41 44 26	16 72 124 85 73 47 29 11 6 3
Total	9,965	9,152	346	467

TABLE 40: MARRIAGES, MARITAL STATUS BY AGE OF BRIDE, 1956, ALBERTA

-		MARITAL	STATUS	
Ages	Total	Spinsters	Widows	Divorced Women
Under 20 years 20-24 years 25-29 years 30-34 years 35-39 years 40-44 years 45-49 years 55-54 years 65-55-54 years 66-64 years 66-69 years 70-74 years 70-74 years Not stated	3,206 4,063 1,292 540 302 175 131 93 49 56 26 21	3,205 3,980 1,135 359 153 61 30 15 9 1 2	 19 40 47 56 63 56 62 36 49 24 21	1 64 117 134 93 51 45 16 4 6
Total	9,965	8,950	484	531

TABLE 41: MARRIAGES, BIRTHPLACE OF GROOM BY BIRTHPLACE OF BRIDE, ALBERTA, 1956

		Unspecified		Ħ
		Other	F	10
		betinU satata	44 1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	166
		sisA	т	24
		Europe	167 100 102 102 102 102 103 103 103 104 105 105 105 105 105 105 105 105 105 105	1050
		British Isles and Possessions	162 172 174 174 175 176 176 177 177 177 177	292
		Province Unspecified		1
		Northwest Territories	0	TO.
		иомиУ	ю         н   м	ಣ
		British Columbia	193 11 11 102 36 36 102 111 111 12	221
		Alberta	5732 111 121 573 4739 4214 143 143 338 338 338	6365
RIDE		Saskatchewan	1073 1073 1073 1073 1073 1073 1073 1073	1210
BIRTHPLACE OF BRIDE	ADA	Manitoba	211 2 2 2 3 2 3 3 5 1 1 1 1 1 3 1 1 1 3 1 1 1 1 1 1 1	243
PLACE	CANADA	Ontario	86 11 0 4 7 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	220
BIRTH		биерес	72 4 000048   NN W	29
		Mew Brunswick	8     044921	37
		Nova	8 146 66611	35
		Prince Edward Island	O 4	11
		Newfoundland	<del>*</del>	TC)
		Total	7311 880 880 880 880 880 1206 5096 5096 5096 5096 5096 5096 5096 50	8422
		Total smoort	7932 24 90 67 100 100 100 100 100 100 100 100 100 10	9965
		BIRTHPLACE OF GROOM	Canada Newfoundland Newfoundland Nova Scotla New Brunswick Ontario Manitoba Saskatchewan Alberta British Columbia Province unspecified British Islae & possessions. Brutope British Islae & possessions. Brutope British Islae & Doster	Total

TABLE 42: MARRIAGES-RELIGIOUS DENOMINATIONS OF GROOM BY RELIGIOUS DENOMINATION OF BRIDE, ALBERTA, 1956

66 Unspecified or unknown	
93, 98 Non-religious denominations	3 8
91 Other religions	14 11 11 11 11 11 11
90 United Church of Canada	88 77 F Z 42 E E C 61 61 61 61 61 61 61 61 61 61 61 61 61
66 Unitarians	1711 111 111 111 111
65 Swedenborgians	17
64 Spiritualists	
25 Society of Friends	
25 Salvation Army	T
80 Roman Catholica	245 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
63 Retormed Churches (Christian)	N   H
70 Presbyterians	84 01 11 8 21 821 8
62 Plymouth Brethren	
24 Pentecostal Assemblies	8 0 8 7 7 7
31-35 Oriental religions	
18noitsnimonab-noV 29	0 10 11 11 41 11
S3 Mormons	H H H H Z
61 Moravian Church	
ZZ Methodists	
səjinonnəM 59	
60 Lutherans	20 113 8 8 11 3 862 113 13 13 13 13 13 13 13 13 13 13 13 13
96 Jewish	
18 International Bible Students	
57 Holiness Movement	
30 Greek Catholic Churches	173 173 173
26 Gospel bodies	
17 Evangelicals	211 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
40 Eastern Orthodox Churches	1136
94 Doukhobors	
54 Church of God	1   1   1   1   1   1   1   1   1   1
15 Churches of Christ (Disciples)	
14 Christlan Scientists	[8]
53 Christian Missionary Alliance	[8] [8]
13 Christians	
52 Christadelphians	
12 Brethren including United	
20 Baptists	1
51 Apostolic bodies	14 18 1 1 40H 0 1
ansolignA OI	, H H
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Total Grooms	1038 341 22 12 15 16 4 4 4 4 4 4 4 16 16 16 16 16 16 16 16 16 16 16 16 16
RELIGIOUS DENOMINATION OF GROOM	Adventists Angluans Angluans Angluans Baptists Baptists Buttern including United Christian Missionary Christian Missionary Alliane Scientists Church of Church Churches Church
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25   26   26   27   27   28   29   20   20   20   20   20   20   20	Reformed Churches (Christian) Roman Catholics Salvation Army Society of Friends Spritualists Swedenborgians	United Church of Canada Of Canada Other religions 98 Non-religious denominations Unspecified or unknown Total Brides 9965
969233623625	8 8 2 2 2 2 8 8	93,

TABLE 43: STILLBIRTHS BY SEX AND PERIOD OF GESTATION, 1956, ALBERTA

	PERIOD OF GESTATION	Male	Femal
28 weeks		8	14
29 weeks		4	4
30 weeks		8	16
31 weeks			6
32 weeks		1 4 =	9
33 weeks		9	5
34 weeks		13	14
35 weeks		5	10
36 weeks		17	22
37 weeks		4 ==	14
38 weeks	**	00	19
39 weeks	***************************************	14	10
40 weeks		47	37
41 weeks	***************************************	8	3
42 weeks	***************************************		6
43 weeks		3	2 2
44 weeks			2
45 weeks			
46 weeks			1
47 weeks			
48 weeks			
49 weeks			
Not stated		9	4
Total		211	198

TABLE 44: RATIO OF MALE TO FEMALE BIRTHS, AND OF BIRTHS TO DEATHS

Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths	Year	Births of Males to 1,000 Births of Females	Ratio of Births to Deaths
1905 1906 1907 1908 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924	1,094 1,075 1,077 1,086 1,065 1,103 1,084 1,053 1,081 1,060 1,063 1,061 1,069 1,074 1,055 1,036 1,036 1,036 1,036 1,036 1,036 1,036 1,036 1,036	3.13 2.07 2.96 2.73 2.59 2.69 2.43 2.43 2.67 3.30 3.74 3.29 3.25 1.88 2.56 2.92 3.36 3.13 2.97 2.80 2.97 2.80 2.97	1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1949 1949 1950	1,049 1,019 1,046 1,046 1,033 1,054 1,058 1,041 1,060 1,061 1,061	3.25 3.08 3.01 3.04 2.81 2.57 2.38 2.70 2.85 2.71 3.02 2.85 2.71 3.02 2.85 3.06 3.06 3.06 3.74 3.74 3.74 3.74 4.3.52
1929 1930	1,042	2.71 3.21	1955 1956	1,066 1,060	4.31 4.48

TABLE 45: DIVORCES AND NULLITIES, BY JUDICIAL DISTRICTS FOR THE YEAR 1956, ALBERTA

		Divorces	3		Nullities	
JUDICIAL DISTRICTS		Granted to Husband	Granted to Wife	Number of Nullities	Granted to Husband	Granted to Wife
Edmonton	345	129	216			
Calgary	276	114	162	2	1	1
Lethbridge	24	14	10	****		
Medicine Hat	10	5	5	1		1
Peace River						
Frande Prairie	10	6	4			
Ianna	4	2	2			
Red Deer	7	2 3	4			
Drumheller	4	2	2	****		
Vetaskiwin	3	1	2			
Vegreville	2	1	1			
Total	685	277	408	3	1	2

### DIVORCES AND NULLITIES IN ALBERTA SINCE THE PASSING OF THE ACT

YEAR	Granted to Husband	Granted to Wife	Total
1919	3	3	6
1920		26	100
921	53	37	90
922	80	49	129
923	57	32	89
924		53	119
1925		42	101
926		75	154
1927		66	149
1928		84	175
929	77	71	148
1930			151
1931		87	156
1932		81	149
1933	56	79	135
1934		106	168
		135	209
1935 1936.		135	209
1937		139	241
1938		162	267
		163	267
1939 1940	104	154	273
		176	311
1941	155		380
1942		201	413
1943	190 245	223	488
1944		243	
1945		273	575
1946		480	974
1947		478	882
1948	302	357	659
1949	262	332	594
1950	249	311	550
1951		334	589
1952		391	630
1953	228	375	603
1954	224	384	608
1955	233	394	627
1956	278	410	688

94	BUREAU OF VITAL STATISTICS
Natural	822444444477478888444474747888888888888
Puerperal Death Rate per 1,000 Births	89 898567555679856798665986544447944999999999999999999999999999999
Infantile Death Rate per 1,000 Births	8222 8222 8222 8222 8222 8222 8222 822
Death Rate	64444488884488884488844888894888894888884488888448888844888888
Number of Deaths	110914444444444444444444444444444444444
Marriage Rate	88888852222222888888888888888888888888
Number of Marriages	1.222.0.0.0.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4
No. of Births Received to Date	4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Birth Rate	88888888888888888888888888888888888888
Number of Births	2. 4 4 7 4 6 6 8 8 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Population	286 000 000 000 000 000 000 000 000 000 0
Year	
	1990 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9



